OPERATOR'S MANUAL

SPECIFICATIONS, SERVICE KITS, GENERAL INFORMATION, TROUBLESHOOTING INCLUDE MANUALS: 6695X-X LOWER PUMP END (PN 97999-002) &

S-632 GENERAL INFORMATION MANUAL (PN 97999-624)

650435-X-C RELEASED: 11-15-96 REVISED: 6-7-10 (REV. 02)

4-1/4" AIR MOTOR 2:1 RATIO 6" STROKE

650435-X46-C FOUR BALL PUMP SERIES

300 SERIES STAINLESS STEEL

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

SERVICE KITS

- Use only genuine ARO® replacement parts to assure compatible pressure rating and longest service life.
- <u>61268</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 6544X-X, PN 97999-064).
- <u>637230-X43</u> for repair of Lower Pump section. Refer to the chart on page 2 for description of -X43 options.

SPECIFICATIONS

Model Series (Refer to option chart) Type Ratio	Air Operated, Four Ball
Air Motor	65465-B
Motor Repair Kit	61268
Motor Diameter	4-1/4" (10.8 cm)
Stroke	6"
Air Inlet	1/2" - 14 NPTF-1(f)
Air Exhaust	1-1/4", 11-1/2 NPTF-1(f)
Lower Pump End Series	66952-X46
Lower Pump Repair Kit	637230-X46
Material Outlet	3/4" NPTF-1(f)

PERFORMANCE

Air Inlet Pressure Range	
Fluid Pressure Range	60 - 300 PSI (4.1 - 20.7 bar)
Max. Rec'd Cycles / Minute	
Displacement In ³ Per Cycle	82
Volume/Cycle	45.4 oz. (1343 ml)
Cycles Per Gallon	2.8
Flow @ 60 Cycles / Minute	21.3 GPM (80.6 lpm)
Noise Level @ 60 Psi - 40 Cpm	81.8 db(A) *

* 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.

MODEL 650435-X46-C Air Inlet 1/2-14 NPTF-1(f) (Not Shown) ARO Air Motor 65465-B (See Manual 6544X-X) 38-5/8 (981 mm) क्राम Spacer Section NUT Y85-29-N (3) WASHER Y14-625 (3) CONNECTOR Æð See Figure 2 ġ SPRING 94457 SPACER ROD 93232-2 SPACER ROD 93232-1 (2) 17-25/32 (452 mm) **Material Outlet** 3/4" NPTF-1(f) 75° FROM AIR EXHAUST 14-21/32 Lower Pump (372 mm) 66952-X46 (See Manual 6695X-X) **FIGURE 1** Accessories Available: 91790 Silencer, 66101 Wall Bracket.

IMPORTANT

This is one of the four documents which support the pump.Replacement copies of these forms are available upon request.a650435-X-C MODEL OPERATOR'S MANUALaGENERAL INFORMATION - INDUSTRIAL PISTON PUMPSa6695X-X LOWER PUMP END OPERATOR'S MANUALa6544X-X AIR MOTOR OPERATOR'S MANUAL

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PUMP DATA

PUMP OPTION DESCRIPTION CHART



- 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.

REASSEMBLY 1. Align the pump motor with the lower pump end. Position the air inlet of the motor 200° from the material outlet.

SLEEVE 91546

CONNECTOR

91644 (2)

- 2. Install the two connectors and retain with the sleeve, slide the retaining ring back into position.
- Reinstall the spacer rods to the pump motor. 3.

Lower Pump

Piston Rod

Bring the motor and lower pump together and retain with the three 4 nuts and washers.



- Remove the three nuts and washers from the three spacer rods (see
- Pull the air motor from the lower pump end until motor piston rod is in
- Using e-ring pliers, slide the retaining ring up far enough to allow the sleeve to move upward and release the two connectors (see figure