OPERATOR'S MANUAL

INCLUDING: SPECIFICATIONS, SERVICE KITS, GENERAL INFORMATION, TROUBLESHOOTING. INCLUDE MANUALS: 6564X-X Air Motor (pn 97999-174), 6720X-XXX Lower Pump End (pn 97999-788) & S-632 General Information Manual (pn 97999-624).

6" AIR MOTOR 4:1 RATIO 6" STROKE

650639-XXX FOUR-BALL PUMP SERIES 300 Series Stainless 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.
- 61355 for repair of air motor section.
- 637317-X4B for repair of lower pump end. Refer to the chart on page 2 for description of -X4B options.

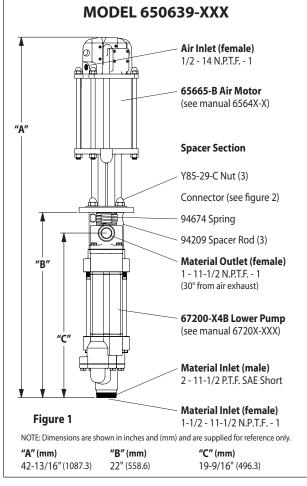
SPECIFICATIONS

Model Series (refer to option chart) Pump Type	650639-XXX Air Operated, Four-Ball Double Acting Pump
Ratio	4:1
Air Motor	65665-B
Motor Repair Kit	61355
Motor Diameter	6″ (15.2 cm)
Stroke (double acting)	6″ (15.2 cm)
Air Inlet (female)	1/2 - 14 N.P.T.F 1
Air Exhaust (female)	1-1/4 - 11-1/2 N.P.T.F 1
Lower Pump End Series	67200-X4B
Lower Pump Repair Kit	637317-X4B
Material Inlet (female)	1-1/2 - 11-1/2 N.P.T.F 1
(male)	2 - 11-1/2 P.T.F. SAE short
Material Outlet (female)	1 - 11-1/2 N.P.T.F 1
Weight	71.25 lbs (32.3 kgs)

PUMP PERFORMANCE

① Tested with 91790 silencer installed.

② The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (LAeq) to meet the intent of ANSI S1.13-1971, CAGI-PNEUROP S5.1 using four microphone locations.



PUMP DATA

IMPORTANT

This is one of four documents which support the pump. Replacement copies of these forms are available upon request. 650639-XXX Model Operator's Manual (pn 97999-790)

- П S-632 General Information - Industrial Piston Pumps (pn 97999-624)
- G720X-XXX Lower Pump End Operator's Manual (pn 97999-788)

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6564X-X Air Motor Operator's Manual (pn 97999-174)

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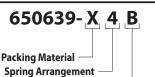
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RELEASED: REVISED: (REV.D)

-28-98 6-2-10

PUMP OPTION DESCRIPTION CHART



Plunger Type -

7 - Glass filled PTFE (upper)

- Virgin PTFE (lower)
- C UHMW-PE
- F UHMW-PE / Leather staggered (upper) UHMW-PE (lower)

SPRING ARRANGEMENT

- 4 Multiple wave spring
- **PACKING MATERIAL** (Packings are upper and lower unless noted)
 - P UHMW-PE / Glass filled PTFE staggered (upper) UHMW-PE (lower)
 - R Glass filled PTFE / UHMW-PE staggered (upper) Virgin PTFE (lower)

PLUNGER TYPE

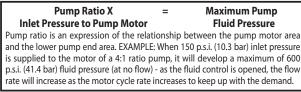
B - Hardened stainless steel with ceramic coating

GENERAL DESCRIPTION

The four-ball pumps are primarily designed for the high volume transfer of light and medium viscosity fluids. Stainless steel construction offers compatibility with a wide range of fluids. The lower pump is designed for easy priming. 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.

WARNING HAZARDOUS PRESSURE. Do not exceed maximum operating pressure of 633 p.s.i. (43.7 bar) at 150 p.s.i. (10.3 bar) inlet air pressure.



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

NOTICE: Thermal expansion can occur when the fluid in the material lines is exposed to elevated temperatures. Example: Material lines located in a non-insulated roof area can warm due to sunlight. Install a pressure relief valve in the pumping system.

Replacement warning label (pn 92325) is available upon request.

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.

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.
- Damaged motor. Service the motor.

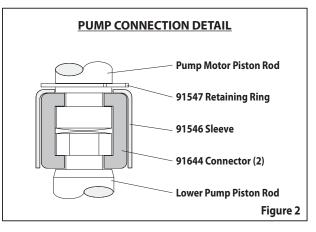
Pump cycles but does not deliver material.

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

PUMP CONNECTION - UPPER / LOWER

NOTE: All threads are right hand.

- 1. Lay the pump assembly on a work bench.
- 2. Remove the three (Y85-29-C) nuts from the three spacer rods (see figure 1).
- 3. Pull the air motor from the lower pump end until the motor piston rod is in the "down" position and the lower pump end rod is in the "up" position.
- 4. 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 2).



REASSEMBLY

- 1. Align the pump motor with the lower pump end. Position the air inlet of the motor 59° from the material outlet.
- 2. Install the two (91644) connectors and retain with the (91546) sleeve. Slide the (91547) retaining ring back into position.
- 3. Reinstall the spacer rods to the pump motor.
- 4. Bring the motor and lower pump together and retain with three (Y85-29-C) nuts.



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PN 97999-790

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