OPERATOR'S MANUAL

650616-X-C

REVISED:

(REV. 02)

SPECIFICATIONS, SERVICE KITS, GENERAL INFORMATION, TROUBLESHOOTING INCLUDE MANUALS: 6696X-X LOWER PUMP END (PN 97999-051) &

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

6" AIR MOTOR 3:1 RATIO 6" STROKE

650616-X43-C FOUR BALL PUMP SERIES

CARBON STEEL, ELECTROLESS NICKEL PLATED



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.
- 61355 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 6564X–X. PN 97999–174).
- 637240- X43 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) . . . 650616-X43-C Type Air Operated, Four Ball

 Ratio
 3:1

 Air Motor
 65665-B

 Motor Repair Kit
 61355

 Motor Diameter
 6" (15.2 cm)

Stroke 6"

 Lower Pump End Series
 66963-X43

 Lower Pump Repair Kit
 637240-X43

 Material Outlet
 3/4" NPTF-1(f)

PERFORMANCE

Air Inlet Pressure Range 30 - 150 PSI (2 - 10.3 bar) Fluid Pressure Range 90 - 450 PSI (6.2 - 31.0 bar)

Max. Rec'd Cycles / Minute ... 78
Displacement In³ Per Cycle ... 113

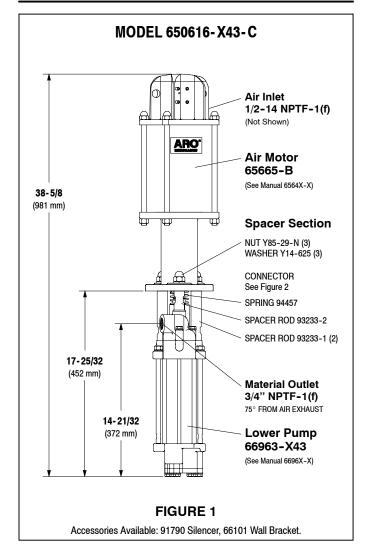
Volume/Cycle 62.6 oz. (1851 ml)

Cycles Per Gallon 2.0

Flow @ 60 Cycles / Minute 29.35 GPM (111.1 lpm)

Noise Level @ 60 Psi - 40 Cpm 84.8 db(A) *

PUMP DATA



IMPORTANT

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

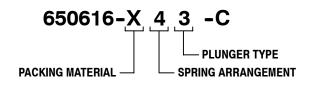
- 650616-X-C MODEL OPERATOR'S MANUAL
- ☐ GENERAL INFORMATION INDUSTRIAL PISTON PUMPS
- 6696X-X LOWER PUMP END OPERATOR'S MANUAL
- ☐ 6564X-X AIR MOTOR OPERATOR'S MANUAL





^{*}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 OPTION DESCRIPTION CHART



PACKING MATERIAL (PACKINGS ARE UPPER AND LOWER UNLESS NOTED)

- 7 GLASS FILLED PTFE (UPPER) VIRGIN PTFE (LOWER)
- C UHMW-PE
- F UHMW-PE/LEATHER STAG'D (UPPER) UHMW-PE (LOWER)

P UHMW-PE/PTFE STAG'D (UPPER)
UHMW-PE (LOWER)

P PTEE/JUMM/ PE STAG'D (JUDDED)

R PTFE/UHMW-PE STAG'D (UPPER) PTFE (LOWER)

SPRING ARRANGEMENT

MULTIPLE WAVE SPRING 3 HD

PLUNGER TYPE

PUMP CONNECTION - UPPER / LOWER

3 HD SS W/HD CHROME PLATING

GENERAL DESCRIPTION

<u>MARNING</u> HAZARDOUS PRESSURE. Do not exceed maximum operating pressure of 450 psi (31 bar) at 150 psi (10.3 bar) inlet air pressure.

PUMP RATIO X MAXIMUM PUMP INLET PRESSURE TO PUMP MOTOR = FLUID PRESSURE

Pump ratio is an expression of the relationship between the pump motor area and the lower pump end area. EXAMPLE: When 150 p.s.i. (10.3 bar) inlet pressure is supplied to the motor of a 3:1 ratio pump it will develop a maximum of 450 p.s.i. (31 bar) fluid pressure (at no flow) – as the fluid control is opened, the flow rate will increase as the motor cycle rate increases to keep up with the demand.

<u>AWARNING</u> Refer to general information sheet for additional safety precautions and important information.

- The Four-Ball pumps are primarily designed for the high volume transfer of light and medium viscosity fluids compatible with carbon steel. The lower pump is designed for easy priming and the double acting feature is standard on 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.

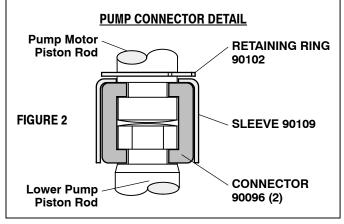
- Be certain to first check for non-pump problems including kinked, restrictive or plugged inlet/outlet hose or dispensing device. Depressurize the pump system and clean out any obstructions in the inlet/ outlet material lines.
- Refer to the motor manual for trouble shooting if the pump does not cycle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

NOTE: All threads are right hand.

- 1. Lay the pump assembly on a workbench.
- Remove the three nuts and washers from the three spacer rods (see figure 1).
- 3. 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.
- 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 200° from the material outlet.
- Install the two connectors and retain with the sleeve, slide the retaining ring back into position.
- 3. Reinstall the spacer rods to the pump motor.
- Bring the motor and lower pump together and retain with the three nuts and washers.



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