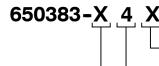
<b>OPERATOR'S MANUAL</b>	<u>. 650383-X</u>
SPECIFICATIONS, SERVICE KITS, GENERAL INFORMATION,INCLUDE MANUALS: 66300-X LOWER PUMP END (PN 97999-646) &S-632 GENERAL INFORMATION MANUAL (PN 97999-624)3-1/4" AIR MOTOR6:1 RATIOTWO E	TROUBLESHOOTING 650383-X4X BALL PUMP SERIES
6" STROKE 300	SERIES STAINLESS 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	PUMP DATA
<ul> <li>Use only genuine ARO® replacement parts to assure compatible pressure rating and longest service life.</li> <li><u>637041</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 6534X-X, PN 97999-028).</li> <li><u>637305-X43</u> for repair of Lower Pump section. Refer to the chart on page 2 for description of -XXX options.</li> </ul>	MODEL 650383-X4X Air Inlet 1/4-18 NPTF-1(f) (Not Shown) Air Motor 65365
SPECIFICATIONS	37-5/8 (See Manual 6534X-X) (956 mm)
Model Series (Refer to option chart)       650383-X4X         Type       Air Operated, Two Ball         Ratio       6:1         Air Motor       65365         Motor Repair Kit       637041         Motor Diameter       3-1/4" (8.3 cm)         Stroke       6"         Air Inlet       1/4" - 18 NPTF-1(f)         Air Exhaust       1-1/4", 11-1/2 NPTF-1(f)         Lower Pump End Series       66300-X4X         Lower Pump Repair Kit       637305-X43         Material Inlet       1" 11-1/2 NPTF-1(f) &         2" 11-1/2 PTF (m) (SHORT)       2" 11-1/2 NPTF-1(f) &         Material Outlet       1" 11-1/2 NPTF-1(f) &         2" 11-1/2 PTF (m) (SHORT)       35.5 Lbs (16.1 Kgs)         PERFORMANCE         Air Inlet Pressure Range       30 - 150 PSI (2 - 10.3 bar)         Fluid Pressure Range       30 - 150 PSI (2 - 10.3 bar)         Fluid Pressure Range       180 - 900 PSI (12 - 62 bar)         Max. Rec'd Cycles / Minute       60         Displacement In <sup>3</sup> Per Cycle       14.5         Volume/Cycle       8 oz. (238 ml)         Cycles Per Gallon       15.9         Flow @ 60 Cycles / Minute       3.7 GPM (14.3 lpm)         Noise Level @ 60 Psi - 40 Cpm       74.8 d	Spacer Section NUT Y85-29-C (3) CONNECTOR See Figure 2 SPACER ROD 94209 (3) Material Outlet 1" NPTF-1(f) 60° FROM AIR EXHAUST (481 mm) 12-11/16 (481 mm) 12-11/16 (322 mm) (322 mm) (3
* The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (L <sub>Aeq</sub> ) to meet the intent of ANSI S1. 13-1971, CAGI-PNEUROP S5.1 using four microphone locations.	<ul> <li>General Information - Industrial Fiston Fomes</li> <li>66300-X LOWER PUMP END OPERATOR'S MANUAL</li> <li>6534X-X AIR MOTOR OPERATOR'S MANUAL</li> </ul>

microphone locations.

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## PUMP OPTION DESCRIPTION CHART



- PLUNGER TYPE

PACKING MATERIAL

PUMP RATIO X

**INLET PRESSURE TO PUMP MOTOR** 

inlet air pressure.

SPRING ARRANGEMENT

MAXIMUM PUMP

FLUID PRESSURE

PACKING MATERIAL 3 GLASS FILLED PTFE C UHMW-PE

G UHMW-PE/LEATHER STAG'D

(PACKINGS ARE UPPER AND LOWER UNLESS NOTED) P UHMW-PE/PTFE STAG'D (UPPER) UHMW-PE (LOWER)

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

### SPRING ARRANGEMENT

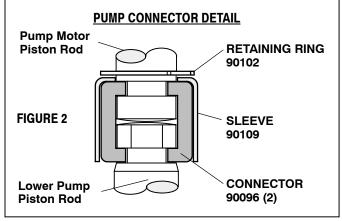
4 MULTIPLE WAVE SPRING

PLUNGER TYPE 3 HD SS W/HD CHROME PLATING B HD SS W/CERAMIC COATING

## **PUMP CONNECTION - UPPER / LOWER**

### NOTE: All threads are right hand.

- 1. Lay the pump assembly on a workbench.
- 2. Remove the three nuts from the three spacer rods. (Fig. 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. (Fig. 2)



### REASSEMBLY

- 1. Align the pump motor with the lower pump end.
- 2. 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.
- 4. Bring the motor and lower pump together and retain with the three nuts.

## safety precautions and important information. The Two-Ball pumps are primarily designed for the pumping of medium viscosity fluids, Stainless Steel construction offers compatibility with a wide range of fluids. The two-ball design provides better

**WARNING** Refer to general information sheet for additional

GENERAL DESCRIPTION

**WARNING HAZARDOUS PRESSURE.** Do not exceed maxi-

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 6:1 ratio pump it will develop a maximum of 750 p.s.i. (52 bar) fluid pressure (at no flow) - as the fluid control is opened, the flow rate will in-

crease as the motor cycle rate increases to keep up with the demand.

mum operating pressure of 900 psi (62 bar) at 150 psi (10.3 bar)

=

- ty with a wide range of fluids. The two-ball design provides better priming of the lower foot valve. 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.



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