# **OPERATOR'S MANUAL**

SPECIFICATIONS, SERVICE KITS, GENERAL INFORMATION, TROUBLESHOOTING INCLUDE MANUALS: 6694X-X LOWER PUMP END (PN 97999-012) & FORM 3638-2 GENERAL INFORMATION MANUAL (PN 97999-353) RELEASED: 8-30-96 REVISED: 6-4-10 (REV.02)

65094

#### 4.125 SQ." HYDRAULIC MOTOR 0.8:1 RATIO 6" STROKE

## 650940-X TWO-BALL PUMP SERIES

400 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>637148-1</u> for repair of Hydraulic Motor section. Service Note: The Hydraulic 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 Hydraulic Motor Operator's Manual from ARO. (Manual 61626-100, PN 97999-282).
- <u>637211-XX3</u> for repair of Lower Pump section. Refer to the chart on page 2 for description of -XXX options.

## SPECIFICATIONS

Model Series (Refer to option chart)	650940-XX3
Туре	Hydraulically Operated, Two-Ball
Ratio	0.8:1
Hydraulic Motor	61626-100
Motor Repair Kit	637148-1
Motor Size	4.125 sq." (26.6 sq. cm)
Stroke	6"
Hydraulic Inlet	1/2" - 14 NPTF-1(f)
Hydraulic Return	3/4" – 14 NPS (f)
Lower Pump End Series	66941-XX3
Lower Pump Repair Kit	
Material Inlet	2" NPTF-1 (m)
Material Outlet	1-1/4" NPTF-1(f)

#### **PERFORMANCE**

Hydraulic Inlet Pressure Range	50 - 2000 PSI (3.4 - 138 bar)
Fluid Pressure Range	40 - 1716 PSI (2.8 - 118 bar)
Max. Rec'd Cycles / Minute	
Displacement In <sup>3</sup> Per Cycle	59.79
Volume / Cycle	33 oz. (979 ml)
Cycles Per Gallon	3.86
Flow @ 50 Cycles / Minute	12.9 GPM (49.0 lpm)
Noise Level	N/A

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PUMP DATA MODEL 650940-XX3 Hvdraulic Inlet 1/2-14 NPTF-1(f) **Hydraulic Motor** 61626-100 (See Manual 61626-100) Spacer Section 45-7/16 CAP SCREW Y6-130-C (3) (1154 mm) WASHER Y14-750-K (3) ш CONNECTOR (See Figure 2) SPACER ROD 93347-2 (3) CAP SCREW 79186 (3) 30-5/32 (766 mm) 0 **Material Outlet** 1-1/4" NPTF-1(f) 95° FROM HYDRAULIC INLET 14-25/32 Lower Pump (375 mm) 66941-XX3 (See Manual 6694X-X) Material Inlet 2" NPTF-1(male)

#### **FIGURE 1**

Accessory Available: 61938-1 Wall Bracket and 65139 Floor Mounting Flange.

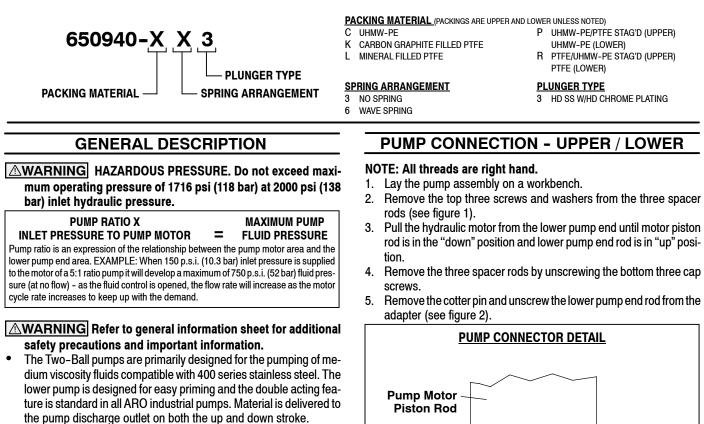
#### <u>IMPORTANT</u>

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

- 650940-X MODEL OPERATOR'S MANUAL
- GENERAL INFORMATION INDUSTRIAL PISTON PUMPS
- 6694X-X LOWER PUMP END OPERATOR'S MANUAL
- 61626-100 HYDRAULIC MOTOR OPERATOR'S MANUAL



## PUMP OPTION DESCRIPTION CHART



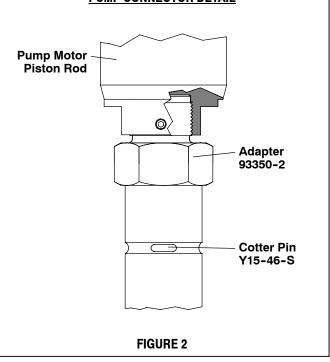
 The motor is connected to the lower pump end by a spacer section. This allows for lubrication of the upper packing gland and prevents motor contamination because of normal wear and eventual leakage through the material packing gland. Be sure the solvent cup is adequately filled with lubricant to protect the upper packings and insure longest service life.

## **TROUBLE SHOOTING**

Pump problems can occur in either the Hydraulic 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 hydraulic fluid leaks from the hydraulic 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.
- Screw the adapter onto the motor piston rod and secure with set screw.
- 3. Screw the lower pump rod into the adapter and secure with the cotter pin. NOTE: Bend the ends of the pin into the groove of adapter.
- 4. Reinstall the spacer rods to the lower pump end, securing with three cap screws.
- 5. Bring the motor and lower pump together and retain with the three screws and washers.



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