

OPERATOR'S MANUAL

650949-X

INCLUDING: SPECIFICATIONS, SERVICE KITS, GENERAL INFORMATION, TROUBLESHOOTING.

INCLUDE MANUALS: 6720X-X Lower Pump End (pn 97999-788), 67147-B Hydraulic Motor (pn 97999-1219) & S-632 General Information Manual (pn 97999-624)

RELEASED: 8-28-98

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(REV. E)

2.062 SQ." HYDRAULIC MOTOR
0.3:1 RATIO
5.75" STROKE

650949-X4X
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.
- **637449** for repair of hydraulic motor section.
- **637317-X4B** for repair of lower pump section. Refer to the chart on page 2 for description of -X4X options.

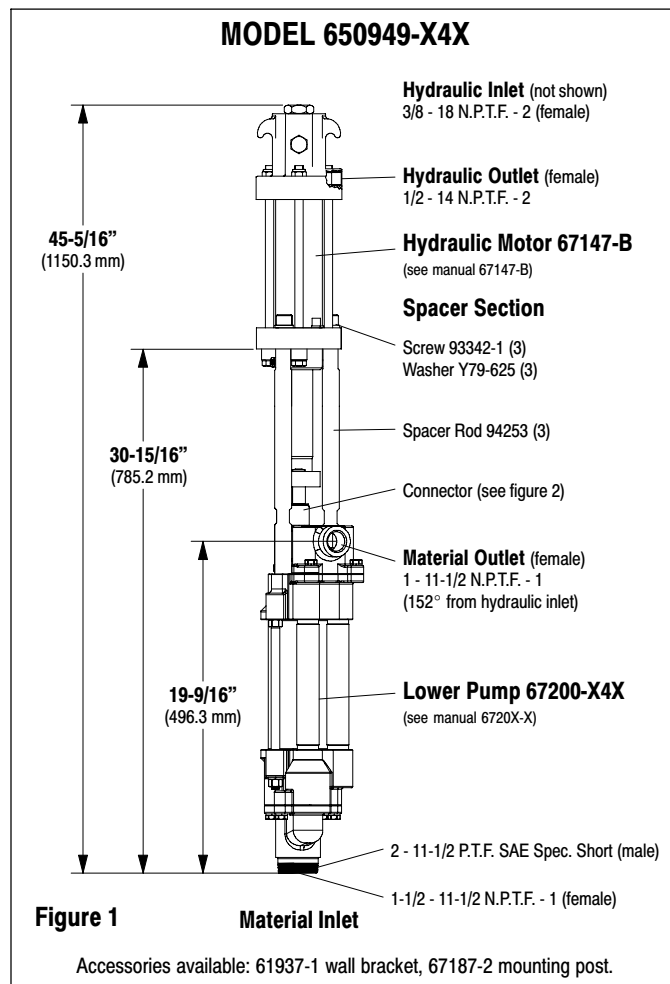
SPECIFICATIONS

Model Series (refer to option chart)	650949-X4X
Type	Hydraulically Operated, Four Ball
Ratio	0.3:1
Hydraulic Motor	67147-B
Motor Repair Kit	637449
Motor Size	2.062 sq." (13.3 sq. cm)
Stroke	5.75" (14.6 cm)
Hydraulic Inlet (female)	3/8 - 18 N.P.T.F. - 2
Hydraulic Return (female)	1/2 - 14 N.P.T.F. - 2
Lower Pump End Series	67200-X4X
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 Spec Short
Material Outlet (female)	1 - 11-1/2 N.P.T.F. - 1
Weight	70 lbs (31.8 kgs)

PERFORMANCE

Hydraulic Inlet Pressure Range	50 - 1200 p.s.i. (3.4 - 82.8 bar)
Fluid Pressure Range	15 - 386 p.s.i. (1.0 - 26.6 bar)
Required H-power @ 50 c.p.m.	3.2 @ 1200 (82.8 bar)
Hydraulic flow required @ 50 c.p.m.	4.9 g.p.m. (18.5 l.p.m.)
Maximum rec'd Cycles / Minute	50
Displacement In³ Per Cycle	78.6
Volume / Cycle	43.5 oz. (1287.6 ml)
Cycles Per Gallon	2.9
Flow @ 50 Cycles / Minute	17.0 g.p.m. (64.4 l.p.m.)
Noise Level	N/A
Maximum Temperature Limit	130° F (54° C)

PUMP DATA



IMPORTANT

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

- 650949-X Model Operator's Manual (pn 97999-794)
- S-632 General Information - Industrial Piston Pumps (pn 97999-624)
- 6720X-X Lower Pump End Operator's Manual (pn 97999-788)
- 67147-B Hydraulic Motor Operator's Manual (pn 97999-1219)