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SALES AND ENGINEERING DATA

MATERIAL PUMP ASS'Y

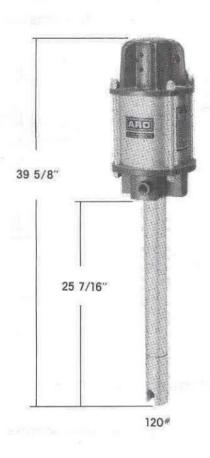
6" AIR MOTOR, 4" STROKE - 100:1 RATIO 120 # & 55 GALLON SIZE SERIES: 100:1 RATIO

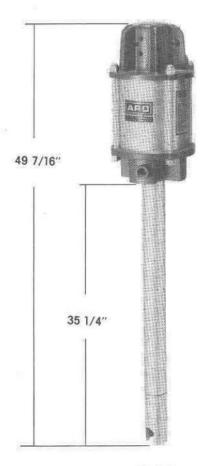
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(REV. 02) S-1405

DIMENSIONAL DATA





55 GAL.

DISPLACEMENT PER CYCLE - 2.31 CU. IN. CYCLES PER POUND - 12.5

MODEL NO.	662605 (120# UNIT)	662608 (55 GAL. UNIT)
AIR MOTOR ASS'Y	65645	65645
AIR INLET SIZE	1/2" NPTF	1/2" NPTF
MAT'L. OUTLET SIZE	1/2" NPTF (F)	3/4" NPTF (F)
UPPER CASTING	ALUM CASTING W/ CARBON ST'L INSERT	ALUM CASTING W/ CARBON ST'L INSERT
CYLINDER	CARBON ST'L	CARBON ST'L
PLUNGER ROD	CARBON ST'L	CARBON ST'L
UPPER BALL	CHROME ST'L	CHROME ST'L
UPPER BALL SEAT	CARBON ST'L	CARBON ST'L
LOWER BALL SEAT	CARBON ST'L	CARBON ST'L
FOOT VALVE	CARBON ST'L W/ PTFE PACKING	CARBON ST'L W/ PTFE PACKING
UPPER VALVE	CARBON ST'L	CARBON ST'L
LOWER VALVE	CARBON ST'L	CARBON ST'L

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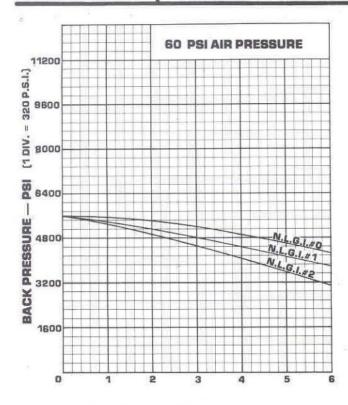
SALES AND ENGINEERING DATA

PERFORMANCE CURVES

6" AIR MOTOR, 4" STROKE - 100:1 RATIO 120 # & 55 GALLON SIZE This Page Supersedes

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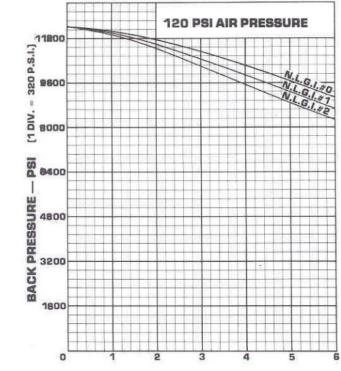
SERIES: 100:1 RATIO

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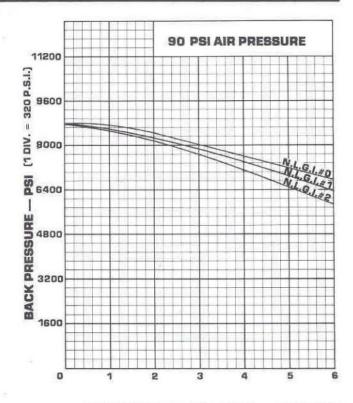
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DELIVERY LBS./MIN (1 DIV. = 2 TENTH LB.)

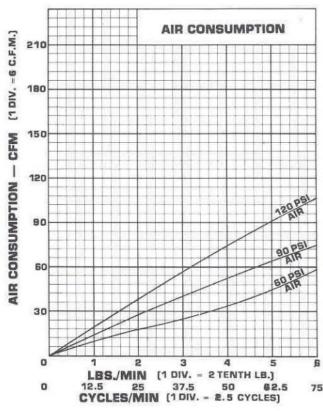




DELIVERY LBS./MIN [1 DIV. = 2 TENTH LB.]



DELIVERY LBS./MIN [1 DIV. = 2 TENTH LB.]





OPERATOR'S MANUAL

66260X

INCLUDING: OPERATION, INSTALLATION & MAINTENANCE

INCLUDE MANUAL: 6564X-X AIR MOTOR (97999-174), AIRLINE SAFETY INFORMATION (100400-76) & S-633 GENERAL INFORMATION (PN 97999-624).

RELEASED: REVISED: (REV. G)

8-26-09 3-17-10

6" AIR MOTOR 100:1 RATIO 0 - 10,000 PSI. RANGE

662605, 662606, 662608 & 662609 PUMP ASSEMBLY



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.
- 65130 packing kit.
- 61355 for air motor service only.

SPECIFICATIONS

Type Air Operated Grease Pump

Ratio 100:1

Air Motor Diameter..... 6" (15.2 cm) **Stroke**...... 4" (10.2 cm) Air Inlet (female) 1/2-14 N.P.T.F. Material Outlet (female)......1/2 - 14 N.P.T.F. Dimensional Data see chart

PERFORMANCE

Air Inlet Pressure Range..... 0 - 100 p.s.i.g (0 - 6.9 bar) Fluid Pressure Range 0 - 10,000 p.s.i.g (0 - 690 bar)

Maximum Delivery/ Min 2.1 lbs (0.95 kg)

OPERATING AND SAFETY PRECAUTIONS

WARNING READ THE GENERAL INFORMATION MAN-**UAL INCLUDED FOR ADDITIONAL OPERATING AND** SAFETY PRECAUTIONS AND OTHER IMPORTANT IN-FORMATION.

AWARNING EXCESSIVE INLET PRESSURE. Can cause explosion resulting in severe injury or death. Do not exceed maximum operating pressure of 10,000 p.s.i.g (690 bar) at 100 p.s.i.g (6.9 bar) inlet air pressure. Do not run pump without using a regulator to limit air supply pressure to the pump.

MARNING EXCESSIVE MATERIAL PRESSURE. Can cause equipment failure resulting in severe injury or property damage. Do not exceed the maximum material pressure of any component in the system.

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 100 p.s.i.g (6.9 bar) inlet pressure is supplied to the motor of a 100:1 ratio pump it will develop a maximum of 10,000 p.s.i.g (690 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.

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.



IMPORTANT

"B" (mm)

25-7/16" (646)

35-1/4" (895)

Drum Size

120 lb. 400 lb. (55 gal.)

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

MODELS

662605, 662606

662608, 662609

66260X MODEL OPERATOR'S MANUAL
G036564X-X AIR MOTOR OPERATOR'S MANUAL

"A" (mm)

39-5/8" (1006)

49-7/16" (1256)

- 100400-76 AIRLINE SAFETY INFORMATION MANUAL
- ☐ S-633 GENERAL INFORMATION LUBRICATION PISTON PUMPS







PARTS LIST / LOWER PUMP END

ltem	Description (size in inches)	Qty	Part No.
1	Tube (662605 & 662606)	(1)	92625-1
	(662608 & 662609)	(1)	92625-2
2	Rod (662605 & 662606)	(1)	92629-1
	(662608 & 662609)	(1)	92629-2
3	Adapter	(1)	92621
4	Pin	(1)	92624
5	Ball Guide	(1)	92623
6	Ball	(1)	Y16-211
7	Piston and Cylinder	(1)	66714
8	Gasket	(1)	92628
9	Tube	(1)	92627
10	Primer Rod	(1)	90131
11	Washer	(1)	90136
12	Foot Valve Sleeve	(1)	4170
13	Snap Ring	(1)	Y147-77
14	Cup	(1)	90757
15	Body	(1)	90756
16	Washer	(1)	F21-56
17	Foot Valve Seat	(1)	93269-1
18	Washer	(1)	90133
19	Washer	(1)	92630
20	Elastic Stop Nut	(1)	95977302
21	Primer Tube	(1)	92626

INSTALLATION

Remove pump from packaging material and install and secure pump to cover, bung or other mounting accessory as ordered. See figure 2 for view of complete assembly.

- Before connecting pump, first blow out material line with air.
- After the system is hooked up, pump a small amount of material through the line. This material should be discarded. (Do this to clear any foreign material out of lines).

OPERATING INSTRUCTIONS

Be sure material hose, lines and other components are able to withstand pressure developed by pumps.

 When a pump is installed and ready to operate: Connect air supply to air motor inlet. Regulate air pressure from p.s.i.g (2.07 bar) to 50 p.s.i.g (3.4 bar). Allow pump to cycle slowly to prime with material and bleed all air from system.

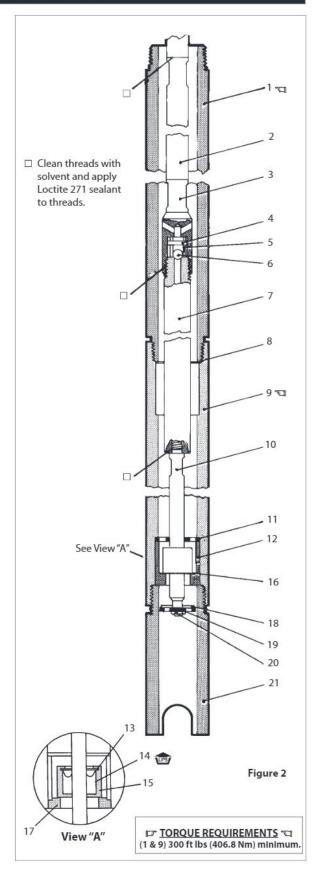
MAINTENANCE

If the pump is to be inoperative for a lengthly period of time (a few hours), disconnect air and relieve all pressure from system. Periodically flush pump with a solvent that is compatible with material being pumped.

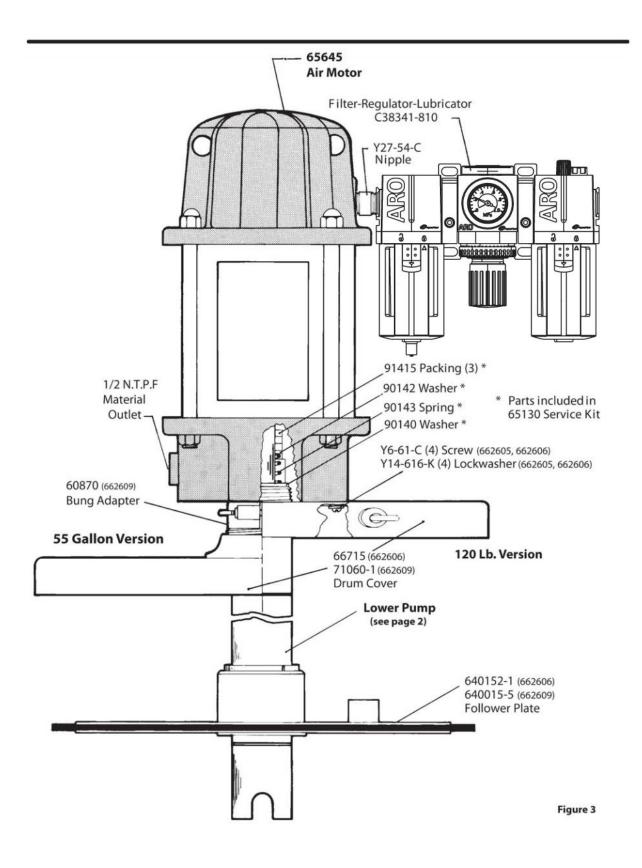
Disassembly should be done on a clean work bench with clean cloths to keep parts clean.

If replacement parts are necessary, consult drawings containing parts for identification.

Before reassembling, lubricate parts where required. When assembling "0" rings or parts adjacent to "0" rings, care must be exercised to prevent damage to "0" rings and "0" ring groove surfaces.



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66260X Page 3 of 4

TROUBLE SHOOTING

No material at outlet. (Pump continuously cycles).

- Empty material supply. Disconnect the air, replenish the material supply.
- Foreign matter is holding foot valve seats open in lower pump tube assembly. Remove lower pump tube assembly and clean valve seats.

Pump operates sluggishly, tends to stick when air is applied or control is opened.

- Air motor is dirty or lacks lubrication. Clean air motor.
- Insufficient air pressure or volume of air. Check air supply.

Air bypasses through exhaust port.

 Foreign matter is holding air valve open or lacks lubrication. Consult factory for nearest Service Center.

Motor stalls.

- Foreign matter in pump, hose, control valve or spray tip obstructing material flow. Check material supply hose and control valve or tip.
- Air not getting to pump. Check air supply.



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