

# OPERATOR'S MANUAL

# NP322L-X

## SPECIFICATIONS, SERVICE KITS, GENERAL INFORMATION

INCLUDE MANUALS: 67075 CART / LIFT (PN 97999-603), P291XX-XXX MINIATURE FILTER / REGULATOR (PN 100400-24), 65184X-X FOLLOWER PLATE (PN 97999-605), NM2322X-X PUMP (PN 97999-755) & S-636 GENERAL INFORMATION MANUAL (PN 97999-636).

RELEASED: 7-9-01  
 REVISED: 12-14-09  
 (REV. D)

**NP322L01-1, -2**  
 CARBON STEEL

**NP322L02-1**  
 STAINLESS STEEL

**NP322L11-1**  
 CARBON STEEL

## LIFT & PUMP ASSEMBLY

### SERVICE KITS

- Use only genuine ARO® replacement parts to assure compatible pressure rating and longest service life.
- **104302** for repair of P39124-100 filter / regulator.
- **637290-P43** for repair of 67100-P43 lower pump section.  
**637291-P43** for repair of 67101-P43 lower pump section.
- **637316** for repair of 66915 air motor section.

### SPECIFICATIONS

<b>Model Series</b> .....	NP322L( ) ( ) ( )
<b>Type</b> .....	Air Operated, Chop Check
<b>Ratio</b> .....	22:1
<b>Air Motor</b> .....	66915
<b>Motor Diameter</b> .....	3" (7.62 cm)
<b>Stroke (Double Acting)</b> .....	3" (7.62 cm)
<b>Air Inlet</b> .....	1/4" - 18 N.P.T.F. (f)
<b>Lower Pump End Series</b>	
NP322L01-1, -2, NP322L11-1	67100-P43
NP322L02-1	67101-P43
<b>Material Outlet</b> .....	1/2" - 14 N.P.T.F. - 1 (f)

### PERFORMANCE

<b>Air Inlet Pressure Range</b> .....	0 - 150 PSI (0 - 10.3 bar)
<b>Fluid Pressure Range</b> .....	0 - 3300 PSI (0 - 227.6 bar)
<b>Max. Rec'd Cycles / Minute</b> .....	125
<b>Displacement In<sup>3</sup> Per Cycle</b> .....	1.9
<b>Volume / Cycle</b> .....	1.05 oz. (31.5 ml)
<b>Cycles Per Gallon</b> .....	120
<b>Flow @ 60 Cycles / Minute</b> .....	0.5 GPM (1.9 lpm)
<b>Noise Level @ 100 Psi</b> .....	85 db(A) *

\* 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.

### IMPORTANT

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

- NP322L-X MODEL OPERATOR'S MANUAL
- GENERAL INFORMATION - AIR OPERATED PUMPING SYSTEMS
- 6710X-X LOWER PUMP END OPERATOR'S MANUAL
- 66913 AIR MOTOR OPERATOR'S MANUAL
- NM2322X-X PUMP OPERATOR'S MANUAL
- 65184X-X FOLLOWER PLATE OPERATOR'S MANUAL
- 67075 CART / LIFT OPERATOR'S MANUAL
- P39XXX-XXX FILTER / REGULATOR OPERATOR'S MANUAL

### OPERATING AND SAFETY PRECAUTIONS

**⚠ WARNING** READ THE GENERAL INFORMATION MANUAL INCLUDED FOR OPERATING AND SAFETY PRECAUTIONS AND OTHER IMPORTANT INFORMATION.

**⚠ WARNING** DO NOT EXCEED MAXIMUM OPERATING PRESSURE OF 3300 P.S.I. (227.6 BAR) AT 150 P.S.I. (10.3 BAR) AIR INLET PRESSURE.

### PUMP DATA

#### BASIC PUMP SYSTEM NP322L ( ) ( ) ( )

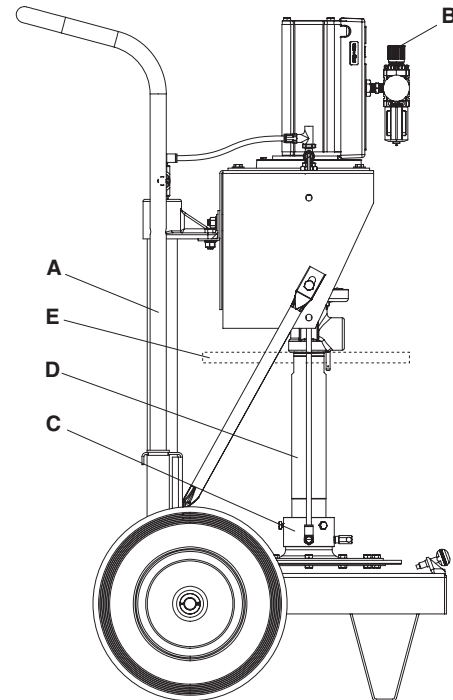


FIGURE 1

### MAJOR COMPONENTS

ITEM	DESCRIPTION (Size in Inches)	QTY	PART NO.
A	Cart Assembly	(1)	67075
B	Miniature Filter / Regulator	(1)	P39124-100
C	Follower Plate (NP322L01-1)	(1)	651840-1
	Follower Plate (NP322L01-2)	(1)	651840-3
	Follower Plate (NP322L02-1)	(1)	651841-1
D	Basic Pump (NP322L01-1, -2, NP322L11-1)	(1)	NM2322E-11-P43
	Basic Pump (NP322L02-1)	(1)	NM2322F-11-P43
E	Cover Asm (NP322L11-1)	(1)	67214

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# ARO

**IR** Ingersoll Rand  
 Industrial Technologies

## GENERAL DESCRIPTION

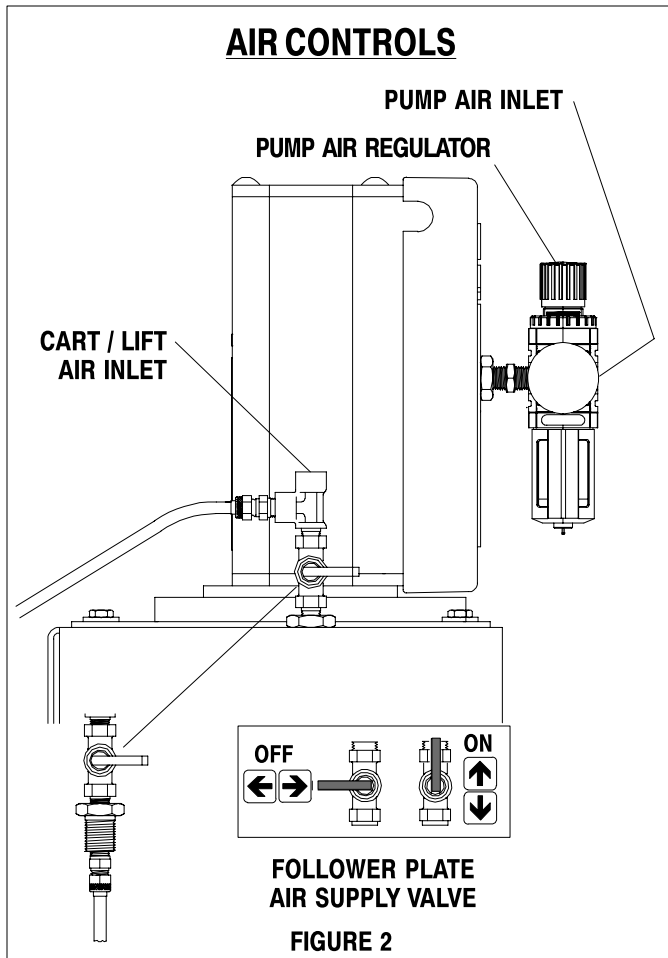
ARO systems are totally enclosed, sealing the material in the system from air and moisture, preventing premature cure-out of the material. This allows for either continuous or intermittent use of the system and reduces the need for daily system clean-up. The built-in lift capability allows for quick drum changeover and easy lifting of pump assembly from the container.

## INSTALLATION

The NP322L()(-) Chop-Check Dispensing System comes completely assembled. Remove unit from crate and place on a level surface. Install material hose and dispensing device as required.

When the following instructions are observed, heavy paste materials can be pumped directly from their original 5 gallon drum without air inclusion, or excessive waste. The follower plate creates an air tight seal as well as clean-wiping action in its progressive downward movement into the drum.

## OPERATING INSTRUCTIONS



### TO RAISE LIFT:

1. Adjust (turn needle valve knob counter-clockwise) air pressure to lift. Connect the air supply (160 PSI MAX) to the air inlet.
2. Raise the lift high enough to clear the height of the drum. Stop the lift's upward travel by adjusting (turn needle valve clockwise until tight) needle valve.

### REFER TO PAGE 3:

1. Once lift assembly and pump are in the "UP" position, place and center an opened 5 gallon drum of material on the lift base. Use the stops on the base to center the 5 gallon drum. Tighten thumb screw to secure drum.
2. Lubricate lower follower wiper plate seal with grease. NOTE: Make certain the grease is compatible with the material being dispensed. This ensures a smooth fit into the pail as well as prevents curing type compounds from bonding to seal.

3. Check vent plug on follower plate to be sure it easily threads in and out. It is recommended to lubricate the threads of the plug to help prevent possible set up of compound at this point. See 65184X-X Follower Plate Operator's Manual.

### TO LOWER LIFT:

**⚠ WARNING** PINCH HAZARD. Follower can descend quickly causing injury. Keep hands clear when aligning with container.

**NOTE:** Be certain the Follower Plate vent plug has been removed so that the air trapped between the follower and the material is allowed to escape from this vent. Captured air between the follower plate and drum will escape.

**NOTE:** The lift may hesitate momentarily before starting downward. The air pressure inside the post air chamber must decrease before it will begin to descend.

1. Disconnect air line from the lift air inlet. Adjust (turn needle valve knob counter-clockwise) needle valve to lower the pump end into drum.
2. Replace the vent plug once the material begins to ooze from the vent opening.
3. Adjust (turn pump air regulator knob counter-clockwise to prevent over pressurization of pump) knob on pump air regulator.
4. Connect air line to pump air regulator and adjust (turn pump air regulator clockwise) air until pump begins to cycle.
5. Trigger gun to prime pump with material.

### TO RAISE LIFT, (NORMAL OPERATION):

1. Disconnect air line from pump air regulator and connect to lift air inlet. Adjust the follower plate air valve pressure up to approximately 8 psig (.55 bar). DO NO OVERPRESSURIZE THE DRUM to avoid damage.

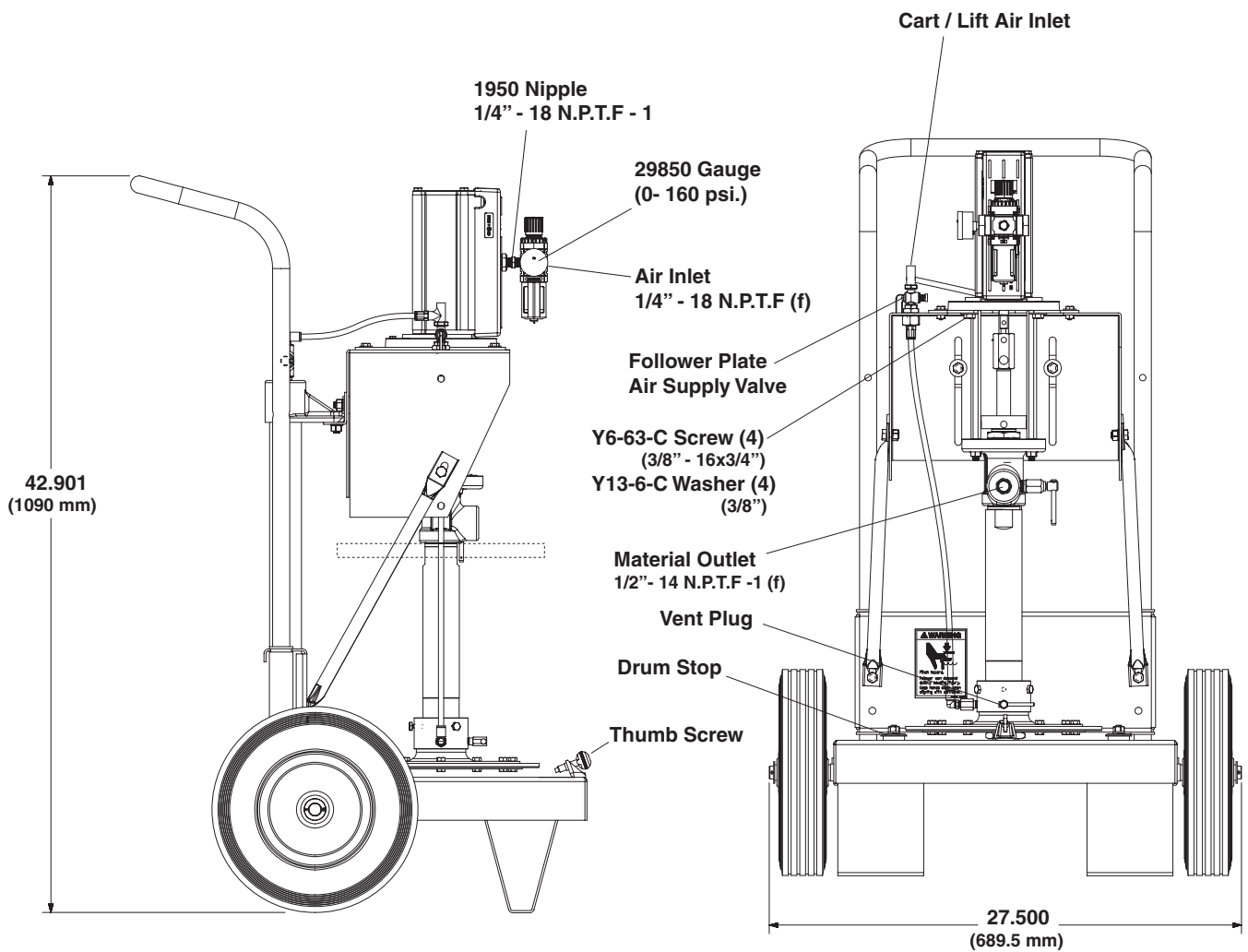
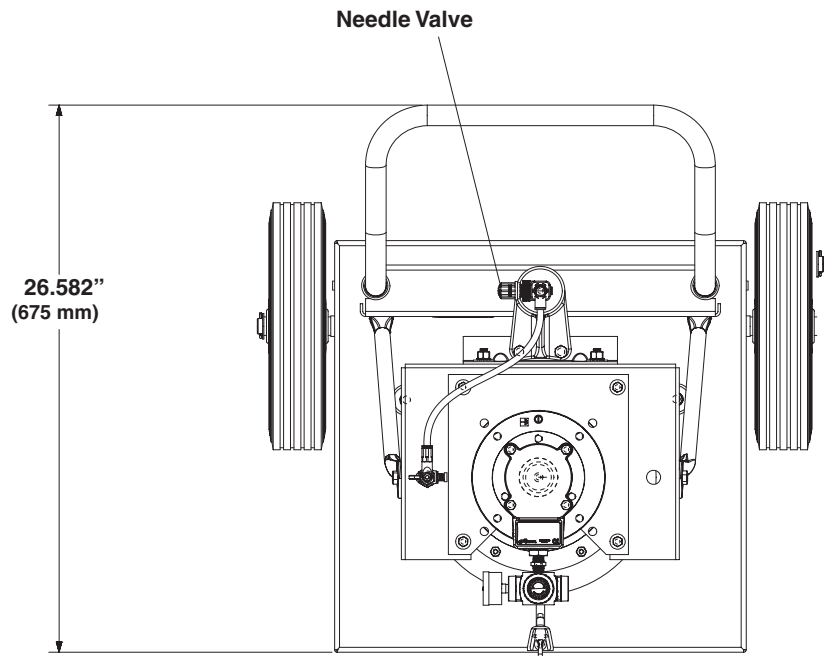
NOTE: Air from this valve will only pass when the unit is being raised.

2. Adjust (turn needle valve knob counter-clockwise) air pressure on lift.
3. Raise the lift high enough to clear the height of the drum. Stop the lift's upward travel by adjusting needle valve knob counter-clockwise.

### TO CHANGE DRUM:

**NOTE:** The needle valve knob should be turned clockwise to hold lift in the "UP" Position.

1. Unscrew thumb screw and remove old 5 gallon drum.
2. Place and center a new drum into position. Remove cover. Tighten thumb screw.





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