# PERFORMANCE Not Shown

INFORMATION (PN 97999-624) NM2318B-13-X43 3" AIR MOTOR TWO BALL PUMP SERIES 18:1 RATIO STAINLESS STEEL **3" STROKE** 

PERATOR'S MANUAL

READ THIS MANUAL CAREFULLY BEFORE INSTALLING, OPERATING OR SERVICING THIS EQUIPMENT.

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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.
- 637316 for repair of air motor section.

637394-X43 for repair of 67310-13-X43 lower pump section.

SPECIFICATIONS	
Model Series (refer to option chart)	NM2318B-13-X43
Туре	Air Operated, Two Ball
Ratio	18:1
Air Motor	66917
Motor Repair Kit	637316
Motor Diameter	3" (7.62 cm)
Stroke (Double Acting)	3" (7.62 cm)
Air Inlet (female)	1/4 - 18 NPTF - 1
Lower Pump End Series	67310-X-X
models NM2318B-13- <u>C</u> 43	67310-13-C43
models NM2318B-13- <u>L</u> 43	67310-13-L43
Lower Pump End Repair Kit	
models NM2318B-13- <u>C</u> 43	637394-C43
models NM2318B-13- <u>L</u> 43	637394-L43
Material Inlet (female)	1/2 - 14 NPTF - 1
Material Outlet (male)	1/4 - 18-1/2 NPSM

Weight ..... 12.63 lbs (5.7 kg)

Air Inlet Pressure Range	30 - 150 psig (2.1 - 10.3 bar)
Fluid Pressure Range	540 - 2700 psig (37.2 - 186.2 bar)
Maximum Rec'd Cycles / Minute	120
Displacement Per Cycle	2.35 ln <sup>3</sup> (38.5 cc)
Cycles Per Gallon	98
Flow @ 120 Cycles / Minute	1.22 gpm (4.6 lpm)
Noise Level @ 100 psig - 60 cpm	85 dB(A) *
Accessories Available	95015 Wall Mount Bracket
	66073-1 Air Line Connection Kit

The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (LAeq) to meet the intent of ANSI S1. 13-1971, CAGI-PNEUROP S5.1 using four microphone locations.



## Figure 1



# **IMPORTANT**

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

- NM2318B-X-X Model Operator's Manual (pn 97999-1128)
- General Information Air / Hydraulic Operated Industrial Piston Pumps (pn 97999-624)
- 67310-X-X Lower Pump End Operator's Manual (pn 97999-1129)

**AK()** (Ringersoll Rand.)

🗖 6691X Air Motor Operator's Manual (pn 97999-748)

PUMP DATA

MODEL NM2318B-13-X43



66917 Air Motor (see manual 6691X)

Air Inlet (female)

1/4 - 18 NPTF - 1

INCLUDING: SPECIFICATIONS, SERVICE KITS, GENERAL INFORMATION, PARTS, TROUBLESHOOTING INCLUDE MANUAL: 67310-X-X LOWER PUMP END (PN 97999-1129), 6691X AIR MOTOR (PN 97999-748) and S-632 GENERAL

**RELEASED:** 10-28-04 **REVISED:** 8-11-17 (REV: D)

# PUMP OPTION DESCRIPTION CHART



- Damaged motor. Service motor.
- No material at the outlet (pump continually cycles).
- Check the material supply, disconnect or shut off the air supply and replenish the material, reconnect,

### Material on one stroke only (fast downstroke).

The lower check may not be seating in the foot valve (see lower pump disassembly). Remove the check from the foot valve, clean and inspect the valve seat area. If check or foot valve are damaged, replace.

### Material on one stroke only (fast upstroke).

The middle packings may be worn (see lower pump disassembly). Replace the seals as necessary.

## Material leakage out of the solvent cup or material appears on the pump plunger rod.

Tighten the solvent cup until leakage discontinues. If this procedure does not aid in stopping the leakage problem, the upper packings may be worn (see lower pump disassembly). Replace the seals as necessary.



NOTE 2: When disassembling lower pump end from pump, use a wrench on the flats of (12) tube, (23) inlet body and (29) seat body to prevent from twisting and damaging the tie rods (see Operator's Manual 67310-X-X, p/n 97999-1129 for lower pump end item num-

- the "down" position and the lower pump end plunger is in the "up"
- Remove the cotter pin and pin, releasing motor piston rod from lower

# REASSEMBLY

- 1. Assemble lower pump end plunger to motor piston rod, aligning through holes.
- 2. Assemble pin through hole, securing rods.
- 3. Assemble cotter pin through pin.
- Rotate the lower pump end so the material outlet is 180° from the 4. motor air inlet.
- 5. Assemble the tie rods to the lower pump end.
- 6. Retain with three nuts.