OPERATOR'S MANUAL / SALES AND ENGINEERING DATA

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

INCLUDE MANUALS: AF0860-XX Air Motor (pn 97999-1472), 66266-G43-B-V Lower Pump End (pn 47648721001) and S-632 General Information Manual (pn 97999-624).

REVISED: (REV: B) 6-26-20

8" AIR MOTOR 80:1 RATIO 6" STROKE

AF0880S11HH47-V EXTRUSION PUMP SERIES

Carbon 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.
- **637489** for repair of Air Motor section.
- 47649542001 for repair of Lower Pump section.

SPECIFICATIONS

Air Operated, Extrusion Double Acting Pump
3 1
80:1
AF0860-XX
637489
8" (20.3 cm)
6" (15.2 cm)
1/2 - 14 NPTF - 1
1-1/4 - 11-1/2 NPTF - 1
66266-G43-B-V
47649546001
1 - 11-1/2 NPTF - 1
89 lbs (40.4 kgs)

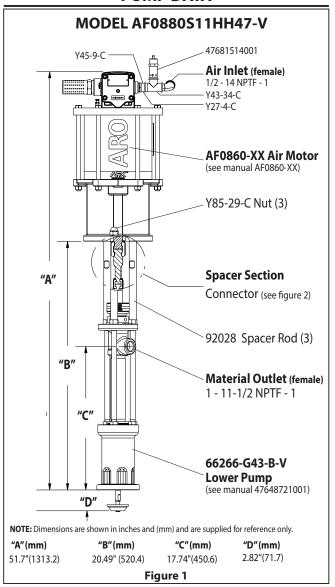
PUMP PERFORMANCE

Maximum Rec'd Cycles / Minute 70

Cycles Per Gallon 18.5

Noise Level @ **60** psi - **40** cpm 89.8 dB(A)^①

PUMP DATA



IMPORTANT

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

- AF0880S11HH47-V Model Operator's Manual (pn 47679467001)
- ☐ **S-632** General Information Industrial Piston Pumps (pn 97999-624)
- ☐ **66266-G43-B-V** Lower Pump End Operator's Manual (pn 47648721001)
- ☐ **AF0860-XX** Air Motor Operator's Manual (pn 97999-1472)

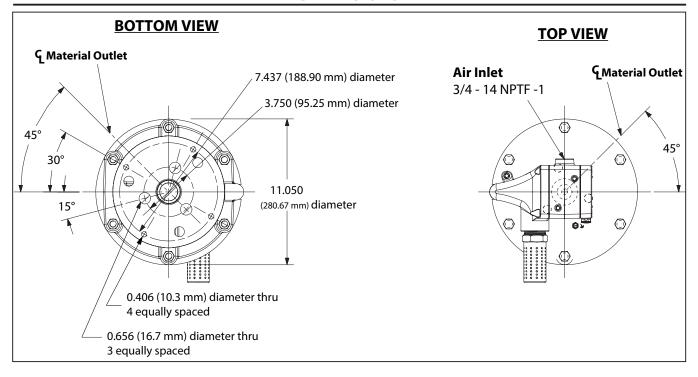


 $[\]odot$ The pump sound pressure level has been updated to an Equivalent Continuous Sound Level (LA_{eq}) to meet the intent of ANSI S1.13-1971, CAGI-PNEUROP S5.1 using four microphone locations.

PUMP OPTION DESCRIPTION CHART

	Pump Model	Lower Pump End
Packing Material:	AF0880S11HH47-V — Plunger Type — Spring Type — Lower Packing Material — Upper Packing Material	66266 - G43 - B - V Spring Type Packing Material
UHMW-PE/ Leather Staggered (upper) Carbon Steel (lower)	НН	G
Spring Type		
Multiple Wave Spring	4	4
Plunger Type		
Carbon Steel	7	3
Air Motor Option		
No Option		N/A

DIMENSIONS



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GENERAL DESCRIPTION

- The chop-check pumps are primarily designed for the pumping of heavy viscous material with or without fibrous content. The models can be used with a gravity feed single post lift as a topper type assembly or with a two post lift as a force feed type assembly. The lower pump is designed for easy priming and the double acting feature is standard in all ARO industrial pumps. Material is delivered to the pump discharge outlet on both the up and down stroke.
- 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.

<u>MARNING</u> HAZARDOUS PRESSURE. Do not exceed maximum operating pressure of 5964 psi (411.3 bar) at 120 psi (8.3 bar) inlet air pressure.

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 150 psi (10.3 bar) inlet pressure is supplied to the motor of a 4:1 ratio pump, it will develop a maximum of 600 psi (41.4 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.

<u>WARNING</u> Refer to general information sheet for additional safety precautions and important information.

NOTICE: 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.

Replacement warning label (pn 92325) is available upon request.

TROUBLESHOOTING

Pump problems can occur in either the air motor section or the lower pump end section. Use these basic guidelines to help determine which section is affected.

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 air leaks from the air motor.
- Damaged motor. Service the motor.

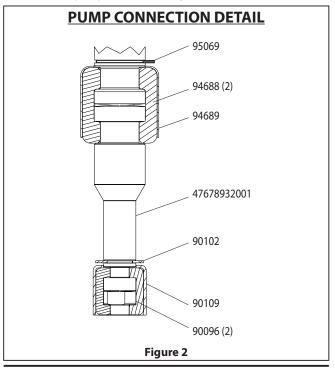
Pump cycles but does not deliver material.

Refer to the lower pump end manual for further trouble shooting.

PUMP CONNECTION - UPPER / LOWER

NOTE: All threads are right hand.

- 1. Lay the pump assembly on a work bench.
- 2. Remove the three (Y85-29-C) nuts from the three (92028) spacer rods (see figure 1).
- Pull the air motor from the lower pump end until the motor piston rod is in the "down" position and the lower pump end rod is in the "up" position.
- 4. Using e-ring pliers, slide the (95069 and 90102) "e" ring up far enough to allow the sleeve to move upward and release the two connectors (see figure 2). Lay the air motor aside.
- Unscrew the three (92028) spacer rods only if disassembly of the lower pump end is necessary.

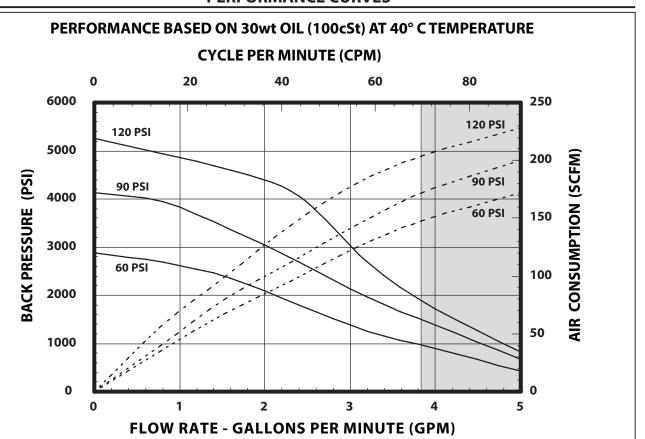


REASSEMBLY

- 1. Align the pump motor with the lower pump end. Position the air inlet of the motor 90° from the material outlet.
- Install the two (94688 and 90096) connectors and retain with the (94689 and 90109) sleeve. Slide the (95069 and 90102) "e" ring back into position.
- 3. Assemble the three (92028) spacer rods to the lower pump end and torque evenly to 60-90 ft lbs (81.3 122.0 Nm)
- 4. Bring the motor and lower pump together and retain with three (Y85-29-C) nuts.

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PERFORMANCE CURVES



NOTE: NON SHADED AREA OF THE GRAPH REPRESENTS RECOMMENDED OPERATING RANGE

