OPERATOR'S MANUAL / SALES AND ENGINEERING DATA

INCLUDING: SPECIFICATIONS, SERVICE KITS, GENERAL INFORMATION, TROUBLESHOOTING. INCLUDE MANUALS: AF046X-XX Air Motor (PN 97999-1466), 62666-XXX-B Lower Pump End (PN 97999-892) and S-632 General Information Manual (pn 97999-624). RELEASED: 8-26-10 REVISED: 3-10-17 (REV: E)

4-1/4" AIR MOTOR 23:1 RATIO 6" STROKE



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.

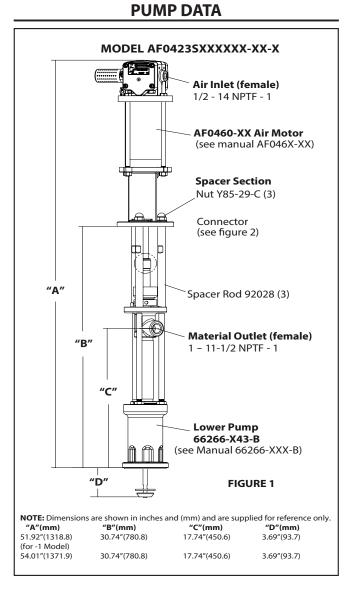
SERVICE KITS

- Use only genuine ARO[®] replacement parts to assure compatible pressure rating and longest service life.
- 637489 for repair of Air Motor section.
- 637074-X43-B for repair of Lower Pump section. Refer to the chart on page 2 for description of -X43 options.

SPECIFICATIONS

Model Series (refer to option chart) AF0423SXXXXXX-XX- X					
Pump Type Air Operated, Extrusion,					
Double Acting Pump					
Ratio 23:1					
Air Motor AF0460-XX					
Motor Repair Kit 637489					
Motor Diameter					
Stroke (double acting)					
Air Inlet (female) 1/2 - 14 NPTF - 1					
Air Exhaust (female) 1-1/4 - 11-1/2 NPTF - 1					
Lower Pump End Series					
Lower Pump Repair Kit 637074-X43-B					
Material Outlet (female) 1 - 11-1/2 NPTF - 1					
Weight					
PUMP PERFORMANCE					
Air Inlet Pressure Range 30-150 psi (2.1-10.3 bar)					
Fluid Pressure Range					
Maximum Rec'd Cycles / Minute					
Displacement Per Cycle 6.97 ln ³ (114.2 cc)					
Cycles Per Gallon					
Flow @ 60 Cycles / Minute 1.8 gpm (6.9 lpm)					
Noise Level @ 60 psi - 40 c.p.m 86.5 db(A)*					
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* 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.



IMPORTANT

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

- AF0423SXXXXXX-XX-X Model Operator's Manual (pn 97999-1499)
- □ S-632 General Information Industrial Piston Pumps (pn 97999-624)
- G6266-XXX-B Lower Pump End Operator's Manual (pn 97999-829)
- AF046X-XX Air Motor Operator's Manual (pn 97999-1466)

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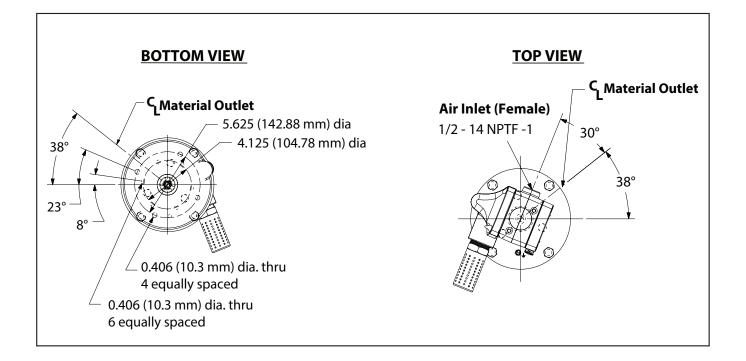


PUMP OPTION DESCRIPTION CHART

PUMP OPTION DESCRIPTION CHART				
	Pump Model	Lower Pump End	Lower End Repair Kit	
	AF0423S11XXXX-X Air Motor Option Plunger Type Spring Type Lower Packing Material Upper Packing Material	66266 -X43-B	637074-X43-B	
Packing Material:			·	
Glass Filled PTFE (upper) Glass Filled PTFE (lower)	КК	3	3	
UHMW-PE (upper) UHMW-PE (lower)	FF	с	с	
UHMW-PE / Leather staggered (upper) UHMW-PE Leather staggered (lower)	нн	G	G	
UHMW-PE / Glass filled PTFE staggered (upper) UHMW-PE (lower)	GF	Ρ	Р	
PTFE /UHMW-PE Staggered (upper) Glass Filled PTFE (lower)	RK	R	R	
Spring Type	·	ð	*	

Multiple Wave Spring	4	4	4		
Plunger Type					
Hardened Stainless Steel w/ Hard Chrome Plating	7	3	3		
Air Motor Option					
No Option		N/A	N/A		
Integrated ball valve regulator	1	N/A	N/A		

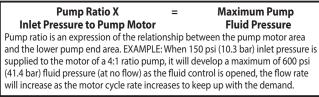
DIMENSIONS



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.

WARNING HAZARDOUS PRESSURE. Do not exceed maximum operating pressure of 3690 psi (254.5 bar) at 150 psi (10.3 bar) inlet air pressure.



WARNING 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-isulated 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.

TROUBLE SHOOTING

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.

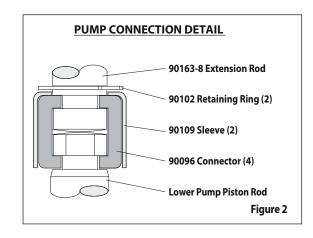
Pump cycles but does not deliver material.

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

PUMP CONNECTION - UPPER / LOWER

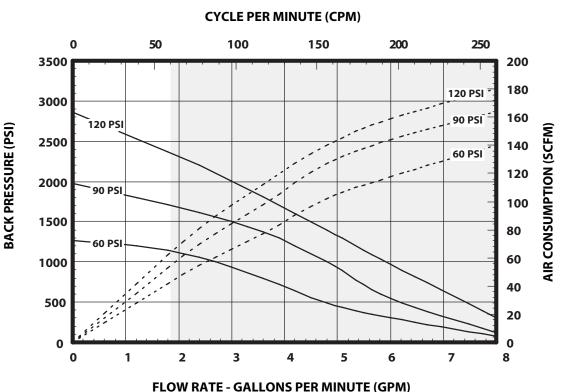
NOTE: All threads are right hand.

- 1. Lay the pump assembly on a work bench.
- 2. Remove the three (Y85-29-C) nuts from the three spacer rods (see figure 1).
- 3. 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 retaining ring up far enough to allow the sleeve to move upward and release the two conne tors (see figure 2). Lay the air motor aside.
- 5. Repeat step 4 to remove the other connector, then remove the extension rod.
- 6. Unscrew the three 92028 spacer rods only if disassembly of the lower pump end is necessary.



REASSEMBLY

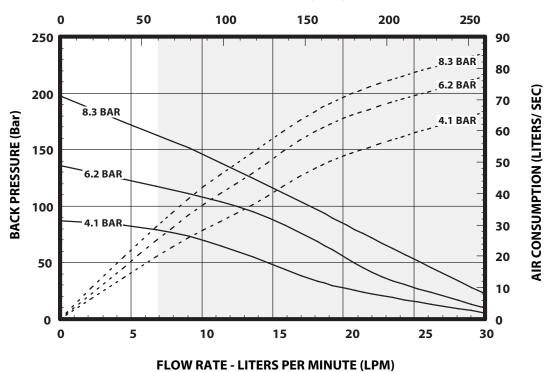
- 1. Align the pump motor and extension rod with lower pump end. Position the air inlet of the air motor 30° from the material outlet.
- 2. Install the two (90096) connectors and retain with the (90109) sleeve. Slide the (90102) retaining ring back into position.
- 3. Assemble the three (92028) spacer 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.



PERFORMANCE BASED ON 30wt. OIL (100cSt) AT 40°C TEMPERATURE

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

PERFORMANCE BASED ON 30wt. OIL (100cSt) AT 40°C TEMPERATURE CYCLE PER MINUTE (CPM)



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

