INCLUDING: OPERATION, INSTALLATION AND MAINTENANCE

REVISED: (REV: E)

12-14-18

1" DIAPHRAGM PUMP

1:1 RATIO (METALLIC)



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

Refer to the Model Description Chart to match the pump material options.

637118 - C for air section repair (see page 8).

637119 - XXX -C for fluid section repair with seats (see page 5).

637119 - XX -C for fluid section repair without seats (see page 5).

ΡΙΙΜΡ ΝΔΤΔ

FONIT DATA				
Models	see "Model			
	Description Chart"			
Pump Type	Metallic Air Operated			
	Double Diaphragm			
Material	see "Model			
	Description Chart"			
Weight				
Aluminum	19 lbs (8.62 kgs)			
Stainless Steel	28.95 lbs (13.13 kgs)			
Maximum Air Inlet Pressure	120 psig (8.3 bar)			
March March 1 Links Burner	10 (0 (0			

Maximum Material Inlet Pressure. 10 psig (0.69 bar) **Maximum Outlet Pressure** 120 psig (8.3 bar) Maximum Flow Rate (flooded inlet) . . . 35 gpm (133 lpm)

Displacement / Cycle @ 100 psig

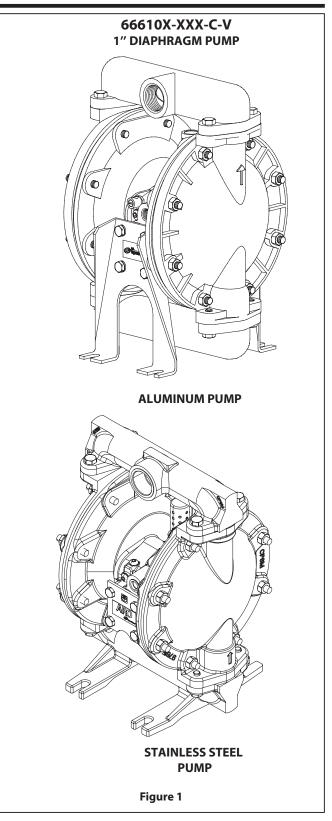
Standard Diaphragm. 0.16 gal. (0.60 lit.) Maximum Particle Size 1/8" dia. (3.2 mm) Maximum Temperature Limits (diaphragm / ball / seat material)

Polypropylene 32° to 175° F (0° to 79° C) **Kynar® PVDF** 10° to 200° F (-12° to 93° C) **Santoprene**[®]-40^o to 225^o F (-40^o to 107^o C)

Dimensional Data.....see page 10 and 11 Noise Level @ 70 psig, 60 cpm $^{\circ}$. . 78.3 dB(A) $^{\circ}$

① Tested with 93110 muffler installed.

NOTICE: All possible options are shown in the chart. However, certain combinations may not be recommended, consult a representative or the factory if you have questions concerning availability.

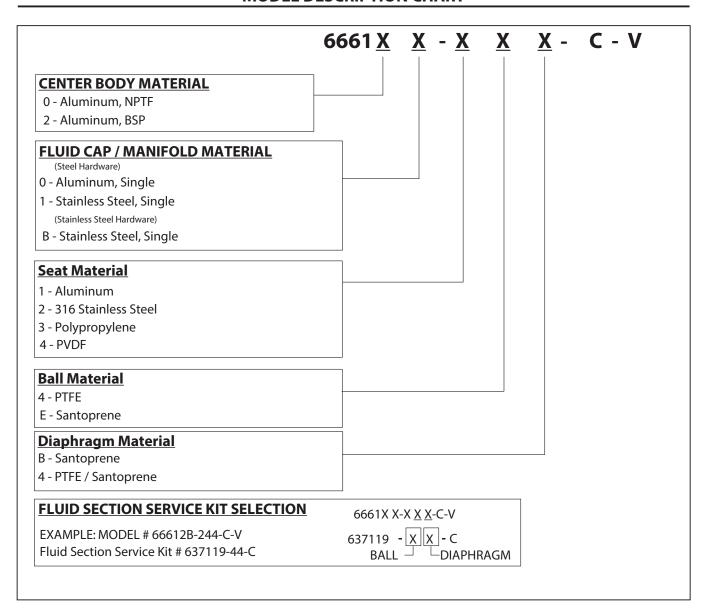






② The pump sound pressure levels published here have been updated to an Equivalent Continuous Sound Level (LA_{ea}) to meet the intent of ANSI S1.13-1971, CAGI-PNEUROP S5.1 using four

MODEL DESCRIPTION CHART



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OPERATING AND SAFETY PRECAUTIONS

READ, UNDERSTAND, AND FOLLOW THIS INFORMATION TO AVOID INJURY AND PROPERTY DAMAGE.



EXCESSIVE AIR PRESSURE STATIC SPARK



<u>WARNING</u> EXCESSIVE AIR PRESSURE. Can cause personal injury, pump damage or property damage.

- Do not exceed the maximum inlet air pressure as stated on the pump model plate.
- Be sure material hoses and other components are able to withstand fluid pressures developed by this pump. Check all hoses for damage or wear. Be certain dispensing device is clean and in proper working condition.
- Sparks can ignite flammable material and vapors.
- The pumping system and object being sprayed must be grounded when it is pumping, flushing, recircula ing or spraying flammable materials such as paints, solvents, lacquers, etc. or used in a location where surrounding atmosphere is conducive to spontaneous combustion. Ground the dispensing valve or device, containers, hoses and any object to which material is being pumped.
- Use the pump grounding screw terminal provided. Use ARO part no. 66885-1 ground kit or connect a suitable ground wire (12 ga. minimum) to a good earth ground source.
- Secure pump, connections and all contact points to avoid vibration and generation of contact or static spark.
- Consult local building codes and electrical codes for specific grounding requirements.
- Aftergrounding, periodically verify continuity of electricalpath to ground. Test with an ohmmeter from each component (e.g., hoses, pump, clamps, container, spray gun, etc.) to ground to ensure continuity. Ohmmeter should show 0.1 ohms or less.
- Submerse the outlet hose end, dispensing valve or device in the material being dispensed if possible. (Avoid free streaming of material being dispensed.)
- Use hoses incorporating a static wire.
- Use proper ventilation.
- Keep inflammables away from heat, open flames and sparks.
- Keep containers closed when not in use.
- <u>↑ WARNING</u> Pump exhaust may contain ontaminants. Can causesevere injury. Pipe exhaustaway from work area and personnel.
- In the event of a diaphragm rupture, material can be forced out of the air exhaust muffler.
- Pipe the exhaust to a safe remote location when pumping hazardous or inflammable materials.
- Use a grounded 3/8" minimum ID hose between the pump and the muffler.
- ⚠ WARNING HAZARDOUS PRESSURE. Can result in serious injury or property damage. Do not service or clean pump, hoses or dispensing valve while the system is pressurized.
- Disconnect air supply line and relieve pressure from the system by opening dispensing valve or device and / or carefully and slowly loosening and removing outlet hose or piping from pump.

- Obtain Material Safety Data Sheets on all materials from the supplier for proper handling instructions. Obtain Material Safety Data Sheets on all materials from the supplier for proper handling instructions.
- **► WARNING** EXPLOSION HAZARD. Models containing aluminum wetted parts cannot be used with 1,1,1-trichloroethane, methylene chloride or other halogenated hydrocarbon solvents which may react and explode.
- Check pump motor section, fluid caps, manifolds and all wetted parts to assure compatibility before using with solvents of this type.
- ⚠ CAUTION Verify the chemical compatibility of the pump wetted parts and the substance being pumped, flushed or recirculated. Chemical compatibility may change with temperature and concentration of the chemical(s) within the substances being pumped, flushed or circulated. For specific fluid compatibility, consult the chemical manufacturer.
- ▲ CAUTION Maximum temperatures are based on mechanical stress only. Certain chemicals will significantly reduce maximum safe operating temperature. Consult the chemical manufacturer for chemical compatibility and temperature limits. Refer to PUMP DATA on page 1 of this manual.
- <u>↑ CAUTION</u> Be certain all operators of this equipment have been trained for safe working practices, understand it's limitations, and wear safety goggles / equipment when required.
- ▲ CAUTION Do not use the pump for the structural support of the piping system. Be certain the system components are properly supported to prevent stress on the pump parts.
- Suction and discharge connections should be flexible connections (such as hose), not rigid piped, and should be compatible with the substance being pumped.
- Disconnect air line from pump when system sits idle for long periods of time.
- ▲ CAUTION Use only genuine ARO replacement parts to assure compatible pressure rating and longest service life.
- NOTICE Replacement warning labels are available upon request: "Static Spark" (93616-1) & "Diaphragm Rupture" (93122).

▲ WARNING
 ■ Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.
 ■ CAUTION
 ■ Hazards or unsafe practices which could result in minor personal injury, product or property damage.
 ■ NOTICE
 ■ Important installation, operation or

maintenance information.

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GENERAL DESCRIPTION

The ARO diaphragm pump offers high volume delivery even at low air pressure and a broad range of material compatibility options available. Refer to the model and option chart. ARO pumps feature stall resistant design, modular air motor / fluid sections. Air operated double diaphragm pumps utilize a pressure differential in the air chambers to alternately create suction and positive fluid pressure in the fluid chambers, valve checks ensure a positive flow of fluid. Pump cycling will begin as air pressure is applied and it will continue to pump and keep up with the demand. It will build and maintain line pressure and will stop cycling once maximum line pressure is reached (dispensing device closed) and will resume pumping as needed.

AIR AND LUBE REQUIREMENTS

<u>WARNING</u> EXCESSIVE AIR PRESSURE. Can cause personal injury, pump damage or property damage.

- A filter capable of filtering out particles larger than 50 microns should be used on the air supply. There is no lubrication required other than the "O" ring lubricant which is applied during assembly or repair.
- If lubricated air is present, makesure that it is compatible with the "O" rings and seals in the air motor section of the pump.

OPERATING INSTRUCTIONS

- Always flush the pump with a solvent compatible with the material being pumped if the material being pumped is subject to "setting up" when not in use for a period of time.
- Disconnect the air supply from the pump if it is to be inactive for a few hours.
- The outlet material volume is governed not only by the air supply, but also by the material supply available at the inlet. The material supply tubing should not be too small or restrictive. Be sure not to use hose which might co lapse.
- When the diaphragm pump is used in a forced-feed (flooded inlet) situation, it is recommended that a "Check Valve" be installed at the air inlet.
- Secure the diaphragm pump legs to a suitable surface to ensure against damage by vibration.

MAINTENANCE

Refer to the part views and descriptions as provided on pages 5 through 9 for parts identification and service kit information.

- Certain ARO "Smart Parts" are indicated which should be available for fast repair and reduction of down time.
- Service kits are divided to service two separate diaphragm pump functions: 1. AIR SECTION, 2. FLUID SECTION. The FLUID SECTION is divided further to match typical part MATERIAL OPTIONS.
- Provide a clean work surface to protect sensitive internal moving parts from contamination from dirt and foreign matter during service disassembly and reassembly.
- Keep good records of service activity and include pump in preventive maintenance program.
- Before disassembling, empty captured material in the outlet manifold by turning the pump upside down to drain material from the pump.

FLUID SECTION DISASSEMBLY

- 1. Remove top manifold(s).
- 2. Remove (22) balls, (19) "O" rings and (21) seats.
- 3. Remove (15) fluid caps.

NOTE: Only PTFE diaphragm models use a primary diaphragm (7) and a backup diaphragm (8). Refer to the auxiliary view in the Fluid Section illustration.

- 4. Remove the (14) screws, (6) washers, (7) or (7 / 8) diaphragms and (5) washers.
- 5. Remove (3) "O" rings.

FLUID SECTION REASSEMBLY

- Reassemble in reverse order.
- Clean and inspect all parts. Replace worn or damaged parts with new parts as required.
- Lubricate (1) diaphragm rod and (2) "O" ring with Key-Lube "O" ring lube.
- Install (2) "O" ring on (1) diaphragm rod.
- Be certain (7) or (7 / 8) diaphragm(s) align properly with (15) fluid caps before making final torque adjustments on bolt and nuts to avoid twisting the diaphragm.
- For models with PTFE diaphragms: Item (8) Santoprene diaphragm is installed with the side marked "AIR SIDE" towards the pump center body. Install the PTFE diaphragm with the side marked "FLUID SIDE" towards the fluid cap.
- Check torque settings after pump has been re-started and run a while.

• Loctite® is a registered trademark of Henkel Loctite Corporation •

• Santoprene® is a registered trademark of Monsanto Company, licensed to Advanced Elastomer Systems, L.P. • ARO® is a registered trademark of Ingersoll-Rand Company •

• 262™, 271™ and 572™ are trademarks of Henkel Loctite Corporation •

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PARTS LIST / 66610X-XXX-C-V FLUID SECTION

Fluid Section Service Kits (637119-XXX-C OR 637119-XX-C)

For Fluid Kits With Seats:

★ 637119-XXX-C Fluid Section Service Kits include: Seats (see SEAT Option, refer to -XXX in chart below), Balls (see BALL Option, refer to -XXX in chart below), Diaphragms (see DIAPHRAGM Option, refer to -XXX in chart below), plus "O" ring items (2), (3), (4), (19) and (33) listed below plus 93706-1 Key Lube grease packet (see page 6).

For Fluid Kits Without Seats:

* 637119-XX-C Fluid Section Service Kits include: Balls (see BALL Option, refer to -XX in chart below), Diaphragms (see DIAPHRAGM Option, refer to -XX in chart below), plus "O" ring ite ms (2), (3), (4), (19) and (33) listed below plus 93706-1 Key Lube grease packet (see page 6).

CEAT OPTIONS

MATERIAL CODE

SEAT OPTIONS 6661XX- <u>X</u> XX-C-V								
	"21"							
- <u>X</u> XX	-XXX Seat Qty [Mtl]							
- <u>1</u> XX	92008-1	(4)	[A]					
- <u>2</u> XX	90428-1	(4)	[SS]					
- <u>3</u> XX	92926	(4)	[P]					
- <u>4</u> XX	92941	(4)	[K]					

BALL OPTIONS 6661XX-X <u>X</u> X-C-V							
★ "2	★ "22" (1-" dia.) (Service Kit - XX)						
-X <u>X</u> X	Ball	Qty	[Mtl]				
-X <u>4</u> X	90532-4	(4)	[T]				
-X <u>E</u> X	90532-A (4) [Sp]						

	HARDWARE OPTIONS 6661XX-XXX-C-V								
Item	n Description(size)		Carbon St 6661X <u>0</u> -, <u>1</u> -, <u>2</u>		Stainless Steel 6661X <u>A-,B-,C-,D-,</u>				
			Part No.	[Mtl]	Part No.	[Mtl]			
26	Bolt (5/16" -18 x1")	(8)	Y6-55-C	(C)	Y6-55-T	[SS]			
29	Nut (5/16" -18)	(16)	Y12-5-C	(C)	Y12-5-S	[SS]			

	14174	TEMIAL CODE
[A]	=	Aluminum
[B]	=	Nitrile
[C]	=	Carbon Steel
[CI]	=	Cast Iron
[Co]	=	Copper
[CP]	=	Composite PTFE
[D]	=	Acetal
[E]	=	E.P.R
[H]	=	Hytrel
[K]	=	P.V.D.F (Kynar)
[N]	=	Neoprene
[P]	=	Polypropylene
[SP]	=	Santoprene
[SH]	=	HardStainless Steel
[SS]	=	Stainless Steel
[T]	=	PTFE
[V]	=	Viton

	DIAPHRAGM OPTIONS 6661XX-XXX-C-V													
★ For Service Kits With Seats	Kitc With Soats		**	* "7"		★ "3"		★ "19"						
	(XXX = (Seat) -XXX = (Seat) -XXX = (Ball) -XXX = (Diaphragm) -XXX = (Diaphragm)	Diaphragm	[Qty]	[Mtl]	Diaphragm	[Qty]	[Mtl]	"O" Ring 1/16" x 5/8" OD	[Qty]	[Mtl]	"O" Ring 3/32" x 1-9/16" OD	[Qty]	[Mtl]	
-XX4	637119-XX4-C	637119-X4-C	93459-4	(2)	[T]	92973-B	(2)	[SP]	Y328-14	(4)	[T]	Y328-126	(4)	[T]
-XXB	637119-XXB-C	637119-XB-C	90533-B	(2)	[SP]				Y328-14	(4)	[T]	90534	(4)	[E]

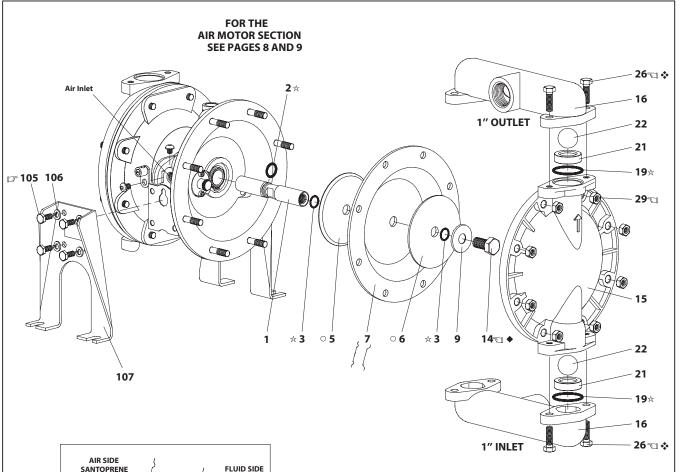
	MAINFOLD / FLUID CAP MATERIAL OPTIONS 6661X <u>X</u> -XXX-C-V								
			Aluminum 6661X <u>0</u> -X			Stainless Steel 6661X <u>1</u> -, 1X <u>B</u> -			
			NPTF	BSP		NPTF	BSP		
Item	Description (Size)	Qty	Part No.	Part No.	[Mtl]	Part No.	Part No.	[Mtl]	
15	Fluid Cap	(2)	47637228001	47637228001	[A]	97615	97615	[SS]	
16	Manifold (6661X0)	(2)	47638147002	47638147003	[A]				
60	Inlet Manifold (6661X1,1XB only)	(1)				97617	97617-1	[SS]	
61	Outlet Manifold (6661X1,1XB only)	(1)				97616	97616-1	[SS]	

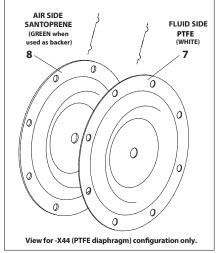
	COMMON PARTS							
Item	Description (size in inches)	Qty	Part No.	[Mtl]				
□1	Rod	(1)	98724-1	[C]				
★2	"O" Ring (3/32" x 3/4" OD)	(1)	Y330-113	[B]				
□ 5	Washer - Air Side (3-5/8" OD)	(2)	93441-2	[C]				
□6	Washer - Fluid Side	(2)	93441-1	[SS]				
	models 661X <u>0</u> only	(2)	93441-2	[C]				
9	Washer (0.505"ID)	(2)	93189-1	[SS]				
14	Screw (1/2 " 20 x 1")	(2)	Y5-85-T	[SS]				
43	Ground Lug (see page 7)	(1)	93004	[Co]				

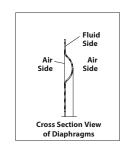
 $[\]square$ "Smart Parts", keep these items on hand in addition to the service kits for fast repair and reduction of down time.

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PARTS LIST / 6661X0 FLUID SECTION







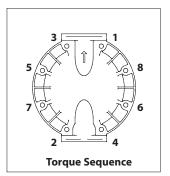


Figure 2

COLOR CODE						
Material	Diaphragm Color	Ball Color				
Santoprene (backup)	Green*	N/A				
PTFE	White	White				
* See item 8 in	inset view.					

NOTE: DO NOT OVERTIGHTEN FASTENERS.

ALL FASTENERS ARE METRIC.

(14) Bolt, 25 - 30 ft lbs (33.9 - 40.7 Nm). (26) Bolts and (29) nuts, 120 - 140 in. lbs (13.6 - 15.8 Nm). (105) 40 - 50 in. lbs (4.5 - 5.6 Nm)

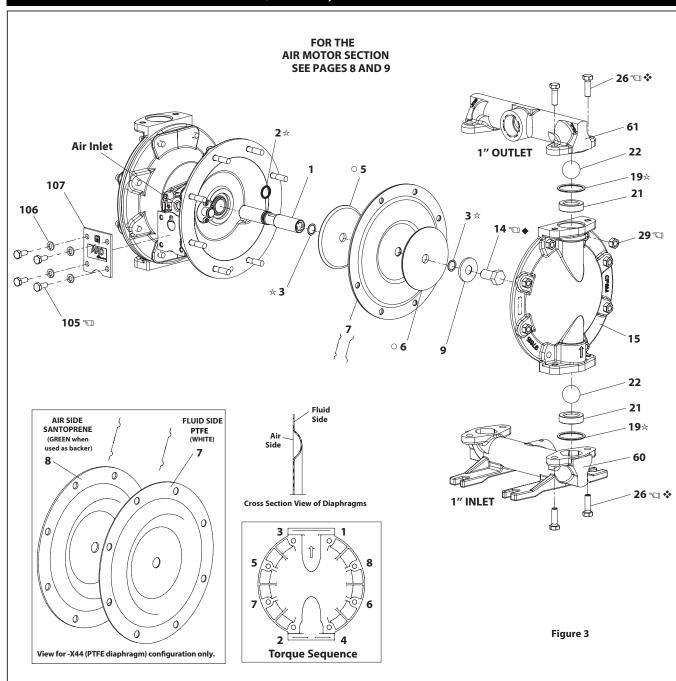
LUBRICATION / SEALANTS

- ☆ Apply Key-Lube to all "O" rings, "U" Cups & mating parts.
- ♦ Apply Loctite® 271™ to threads at assembly.
- Apply anti-seize compound to threads and bolt and nut flange heads which contact pump case when using stainless steel fasteners.

O NOTE: Radius edge of parts (5 and 6) is against diaphragm.

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PARTS LIST / 6661X1, 6661XB FLUID SECTION



COLOR CODE						
Material	Diaphragm Color	Ball Color				
Santoprene (backup)	Green*	N/A				
PTFE	White	White				
* See item 8 in inset view.						

SASSEMBLY TORQUE REQUIREMENTS TO NOTE: DO NOT OVERTIGHTEN EASTENERS

NOTE: DO NOT OVERTIGHTEN FASTENERS. ALL FASTENERS ARE METRIC.

(14) Bolt, 25 - 30 ft lbs (33.9 - 40.7 Nm). (26) Bolts and (29) nuts, 120 - 140 in. lbs (13.6 - 15.8 Nm). (105) 40 - 50 in. lbs (4.5 - 5.6 Nm)

LUBRICATION / SEALANTS

- Apply Key-Lube to all "O" rings, "U" Cups & mating parts.
- ◆ Apply Loctite® 271™ to threads at assembly.
- Apply anti-seize compound to threads and bolt and nut flange heads which contact pump case when using stainless steel fasteners.

O NOTE: Radius edge of parts (5 and 6) is against diaphragm.

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PARTS LIST / 66610X-XXX-C-V AIR MOTOR SECTION

✓ Indicates parts included in 637118-C Air Section Service Kit.

SERVICE KIT NOTE: Service Kit 637118-C is a general repair kit for all 1" and larger ARO diaphragm pump air motors. It contains extra "O" Rings and other-parts that may not be needed to service this model.

Item	Description (size)	Qty	Part No.	[Mtl]
101	Motor Body (models 6661X0)	(1)	47637230001	[A]
	(models 6661X1, 6661XB)	(1)	47586785001	[A]
√102	"O" Ring (1/16" x 1" OD)	(2)	Y325-20	[B]
□ 103	Sleeve	(1)	94527	[D]
√ 104	Retaining Ring, TruArc (.925" ID)	(2)	Y145-25	[C]
105	Screw/Wshr(1/4"-20 x 5/8") (6661X0 ,1X1)	(8)	93860	[C]
105	Cap Screw (1/4"-20 x 5/8") (6661XB)	(8)	Y6-42-T	[SS]
106	Lockwasher (1/4") (6661XB)	(8)	Y14-416-T	[SS]
107	Leg (models 6661X0)	(2)	47637450001	[C]
107	Plate (models 6661X1, 1XB)	(2)	93707-1	[SS]
√108	Gasket (with notch)	(1)	92878	[B/Ny]
□ 109	Piston	(1)	92011	[D]
√ 110	"U" Cup (3/16" x 1-3/8" OD)	(1)	Y186-51	[B]
□ 111	Spool (models 66610X, 66612X)	(1)	92005	[A]
□ 112	Washer (1.557" OD)	(5)	92877	[Z]
√ 113	"O" Ring (1/8" x 1-1/4" OD)	(5)	Y325-214	[B]
√ 114	"O" Ring (3/32" x 1-9/16" OD)	(6)	Y325-126	[B]
□ 115	Spacer	(4)	92876	[Z]
□ 116	Spacer	(1)	92006	[Z]
√ 117	Gasket	(1)	92004	[B/Ny]

Item	Description (size)	Qty	Part No.	[Mtl]	
118	Pilot Rod	(1)	93309-1	[C]	
√ 119	"O" Ring (1/8" x 3/4" OD)	(4)	93075	[U]	
120	Spacer	(3)	115959	[Z]	
121	Sleeve Bushing	(2)	98723-1	[Bz]	
√ 122	"O" Ring (3/32" x 9/16" OD)	(2)	94820	[U]	
√ 123	Screw (#8 - 32 x 3/8")	(4)	Y154-41	[C]	
124	Stud (5/16" - 18 x 1-3/4") (6661X0, 1X1)	(16)	92866	[C]	
124	(5/16" - 18 x 1-3/4") (6661XB)	(16)	92866-1	[SS]	
128	Pipe Plug (1/8 - 27 N.P.T x 1/4")	(1)	Y227-2-L	[C]	
195A	Button Head Screw (1/4" - 20 x 1/4")	(2)	94987	[SS]	
195B	Button Head Screw (1/4" - 20 x 3/8")	(1)	94987-1	[SS]	
201	Muffler	(1)	93110	[C]	
✓	Key-Lube "O" Ring Lubricant	(1)	93706-1		
	Pak of 10 Key-Lube		637175		
Service Kits include: Y212-101 (2) Screws (#10 - 32 x 1/4") used on units manufactured between 8/90 and 4/92 to retain the pilot bushing.					

 [✓] Parts Y 145-26 (1.156" ID) (qty 2) retaining rings and Y325-24 "O" rings (qty
 2) are included in the service Kit for the repair of larger pumps.

AIR MOTOR SECTION SERVICE

Service is divided into two parts – 1. Pilot Valve, 2. Major Valve. GENERAL REASSEMBLY NOTES:

- Air Motor Section Service is continued from Fluid Section repair.
- Inspect and replace old parts with new parts as neces sary. Look for deep scratches on metallic surfaces, and nicks or cuts in "O" rings.
- Take precautions to prevent cutting "O" rings upon installation.
- Lubricate "O" rings with Key-Lube grease.
- Do not overtighten fasteners, refer to torque specification block on view.
- Re-torque fasteners following restart.

PILOT VALVE DISASSEMBLY

- 1. Remove (104) retaining ring.
- 2. Remove (123) screws and (122) "O" rings.
- 3. Remove (118) piston rod, (121) sleeve bushing, (119) "O"
- 4. rings and (120) spacers from the (101) motor body.
- 5. Remove (103) sleeve and (102) "O" rings.

PILOT VALVE REASSEMBLY

- Replace two (102) "O" rings if worn or damaged and reinstall (103) sleeve.
- 2. Install one of the (121) sleeve bushings, (119) "O" rings, (120) spacers and the remaining (121) bushing.
- 3. Carefully push (118) pilot rod into bushings etc. and retain on each end with the two (122) "O" rings, retain with (123) screws.
- 4. Replace (104) retaining rings.

MATERIAL CODE				
[A]	= Aluminum	[NY]	=	Nylon
[B]	= Nitrile	[SS]	=	Stainless Steel
[BZ]	= Bronze	[U]	=	Polyurethane
[C]	= Carbon Steel	[Z]	=	Zinc
[D]	= Acetal			

MAJOR VALVE DISASSEMBLY

- 1. Remove (107) plate (or leg depending on model), (108 and 117) gaskets.
- 2. On the side opposite the air inlet, push on the inner diameter (111) spool. This will force the (109) piston out. Continue pushing the (111) spool and remove. Check for scratches and gouges.
- 3. Reach into the air section (exhaust side) and remove (116) spacer, (115) spacers, (113) "O" rings, (114) "O" rings, (112) washers, etc. Check for damaged "O" rings.

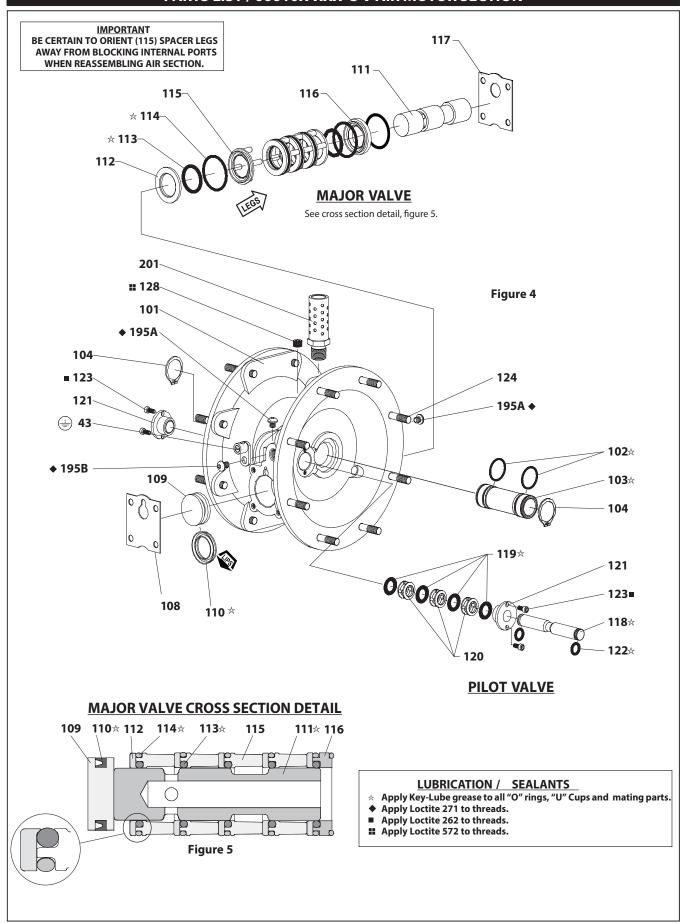
MAJOR VALVE REASSEMBLY

- Replace (112) washer, (114) "O" ring and (113) "O" ring onto (115) spacer and insert etc.
 - NOTE: Be careful to orient spacer legs away from blocking internal ports.
- 2. Lubricate and carefully insert (111) spool.
- 3. Install (117) gasket and (107).
- 4. Lubricate and install (110) packing cup and insert (109) piston into (air inlet side) cavity, the (110) packing cup lips should point outward.
- 5. Install (108) gasket and (107).

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 $[\]square$ "Smart Parts" Keep these items on hand in addition to the Service Kits for fast repair and reduction of down time.

PARTS LIST / 66610X-XXX-C-V AIR MOTOR SECTION



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TROUBLE SHOOTING

Product discharged from exhaust outlet.

- Check for diaphragm rupture.
- Check tightness of diaphragm nut.

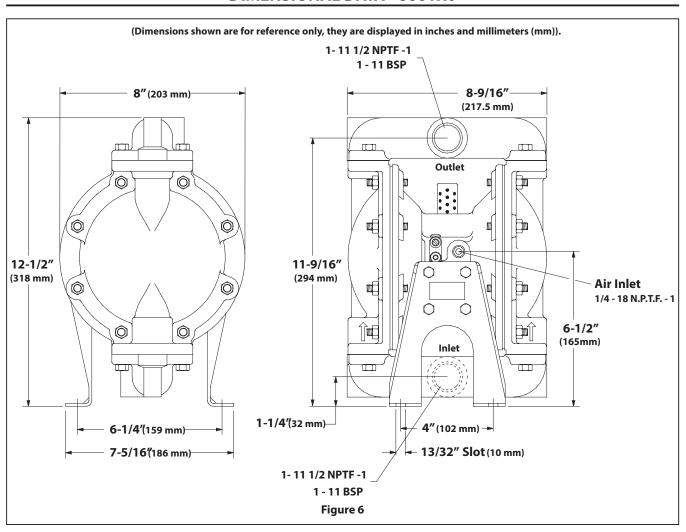
Air bubbles in product discharge.

- Check connections of suction plumbing.
- Check "O" rings between intake manifold and fluid caps.
- Check tightness of diaphragm nut.

Low output volume, erratic flow, or no flow.

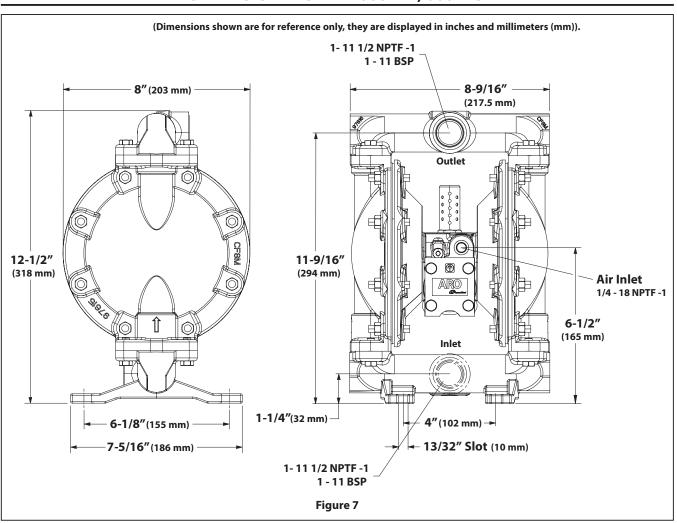
- · Check air supply.
- Check for plugged outlet hose.
- Check for kinked (restrictive) outlet material hose.
- Check for kinked (restrictive) or collapsed inlet material hose.
- Check for pump cavitation suction pipe should be sized at least as large as the inlet thread diameter of the pump for proper flow if high viscosity fluids are being pumped. Suction hose must be a non-collapsing type, capable of pulling a high vacuum.
- Check all joints on the inlet manifolds and suction connections. These must be air tight.
- Inspect the pump for solid objects lodged in the diaphragm chamber or the seat area.

DIMENSIONAL DATA - 6661X0



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DIMENSIONAL DATA - 6661X1, 6661XB



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