OPERATOR'S MANUAL

6661TX-X-C

REI FASED

INCLUDING: OPERATION, INSTALLATION & MAINTENANCE

REVISED: (REV.T)

9-24-13

1-1/2" DIAPHRAGM PUMP 1:1 RATIO (NON-METALLIC)

ኬ	RE	A

AD 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 "Model Description Chart" to match the pump material options.

637118-C for Air Section repair (see page 6).

637165-XX for Fluid Section repair (see page 4).

PUMP DATA

Models see Model Description C Pump Type Non-Metallic Air Operate Material see Model Description C Material Inlet / Outlet	d Double Diaphragm hart
Weight Polypropylene	62 lbs (28.1 kg)
P.V.D.F. (Kynar)	92 lbs (41.7 kg)
[add 23 lbs (10.4 kgs) for cast	
Maximum Air Inlet Pressure	120 p.s.i (8.3 bar)
Maximum Outlet Pressure	120 p.s.i (8.3 bar)
Maximum Material Inlet Pressure	10 p.s.i (0.69 bar)
Maximum Flow Rate (flooded inlet)	100 g.p.m. (378.5 l.p.m.)
Displacement / Cycle @ 100 p.s.i	
Standard Diaphragm 0.67 gal	(2.54 lit)
Composite PTFE Diaphragm. 0.43 gal	(1.63 lit)
Maximum Particle Size	1/4″ dia. (6 mm)
Maximum Temperature Limits	
Polypropylene	
P.V.D.F (Kynar) 10° to 2	
Dimensional Data se	
Noise Level @ 70 p.s.i., 60 c.p.m 77	./ db(A) ①

① The pump sound pressure levels published here have been updated to an Equivalent Continuous Sound Level (L_{Aeq}) to meet the intent of ANSI \$1.13-1971, CAGI-PNEU-ROP \$5.1 using four microphone locations.

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.

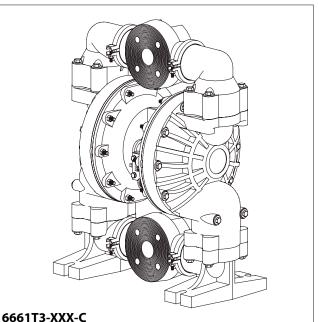
GENERAL DESCRIPTION

The ARO Diaphragm Pump offers high volume delivery even at low air pressures and a broad range of material compatibility options available.

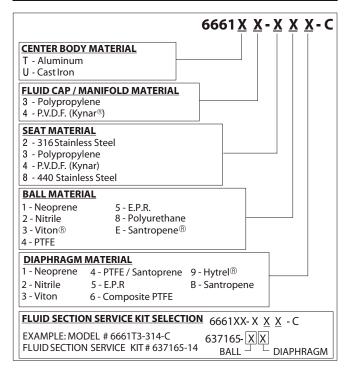
Refer to the model and option chart. ARO pumps feature stall resistant design, modular air motor / fluid sections.

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, ball checks insure 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 pres sure and will stop cycling once maximum line pressure is reached (dispensing device closed) and will resume pumping as needed.



MODEL DESCRIPTION CHART





OPERATING AND SAFETY PRECAUTIONS

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





HAZARDOUS MATERIALS HAZARDOUS PRESSURE

WARNING 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.
- **WARNING** STATIC SPARK. Can cause explosion resulting in severe injury or death. Ground pump and pumping system.
- Sparks can ignite flammable material and vapors.
- The pumping system and object being sprayed must be grounded when it is pumping, flushing, recirculating 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.
- 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.
- After grounding, periodically verify continuity of electrical path to ground. Test with an ohmmeter from each component (e.g., hoses, pump, clamps, container, spray gun, etc.) to ground to insure 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.
- **WARNING** Pump exhaust may contain contaminants. Can cause severe injury. Pipe exhaust away 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 3/4" minimum i.d. 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.
- **WARNING** HAZARDOUS MATERIALS. Can cause serious injury or property damage. Do not attempt to return a pump to the factory or service center that

- contains hazardous material. Safe handling practices must comply with local and national laws and safety code requirements.
- 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.
- ▲ CAUTION 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.
- **CAUTION** Prevent unnecessary damage to the pump. Do not allow pump to operate when out of material for long periods of time.
- 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 RE-TORQUE ALL FASTENERS BEFORE OPERATION. Creep of housing and gasket materials** may cause fasteners to loosen. Re-torque all fasteners to insure against fluid or air leakage.

	 Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.
	 Hazards or unsafe practices which could result in minor personal in- jury, product or property damage.
NOTICE	 Important installation, operation or maintenance information.

AIR AND LUBE REQUIREMENTS

WARNING EXCESSIVE AIR PRESSURE. Can cause pump damage, personal injury 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.
- When lubricated air is necessary, supply the air lubricator with a good grade of SAE 90 wt. non-detergent oil and set the lubricator to a rate not to exceed one drop per minute.

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 collapse.
- 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 insure against damage by vibration.

MAINTENANCE

Refer to the part views and descriptions as provided on page 4 through 7 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 SEC-TION. 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 and 33) "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.

For 6661XX-XX6-C:

4. Remove (7) diaphragm, (5) washers and (30) shims. For other models:

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

NOTE: Do not scratch or mar the surface of (1) diaphragm rod.

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[®] grease.
- Use ARO PN / 98931-T Bullet (installation tool) to aid in installation of (2) "O" ring on (1) diaphragm rod.
 For 6661XX-XX6-C:
- Attach a regulated airline to the pump inlet; gradually increasing the air pressure (6-8 p.s.i) to check which side of the pump with air blowing out, and then shut down the
- air supplier.
 Fasten (7) diaphragm with (5) washer into (1) diaphragm rod, and insert them into (101) Center body from the chamber identified with blowing air in the previous step.
- Install (15) fluid cap.
- Thread the other side of (7) diaphragm with (5) washer into (1) diaphragm rod, but do not tighten it.
- Record the angle for the misalignment between (7) diaphragm hole and (101) center body holes, then unthread the (7) diaphragm and place proper Qty. of (30) shims between (5) washer and (1) diaphragm rod.
- Attach a regulated airline to the pump inlet, gradually increasing the air pressure (6-8 psi) until the diaphragm shift to the other site, shut down the air supply.
- Install the second (15) fluid cap. Note: for details, refer to service kits manual 48495949.

For other models:

- 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.
- Re-check torque settings after pump has been restarted and run awhile.

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 Santoprene[®] is a registered trademark of Monsanto Company, licensed to Advanced Elastomer Systems, L.P. Key-Lube[®] is a registered trademark of Key Industries •

PARTS LIST / 6661TX-X-C FLUID SECTION

★ <u>Fluid Section Service Kits</u> include: Balls (see Ball Option, refer to -<u>X</u>X in chart below), Diaphragms (see Diaphragm Option, refer to -X<u>X</u> in chart below), 93706-1 Key-Lube grease, plus "O" Ring items: 2, 3, 4, 19 and 33.

	SEAT OP 6661XX-			
	"21	"		
- <u>X</u> XX	Seat	Qty	[Mtl]	-X <u>X</u>
-2XX	96849	(4)	[SS]	-X1
-3XX	97171-1	(4)	[P]	-X2
-4XX	97171-2	(4)	[K]	-X3
-8XX	97179	(4)	[SH]	-X4

	BALL OPTIONS 6661XX-X <u>X</u> X-C										
★ "22" (2-1/2" dia.) (Service Kit- <u>X</u> X)											
-X <u>X</u> X	-XXX Ball Qty [Mtl] -XXX Ball Qty [Mt										
-X1X	93358-1	(4)	[N]	-X5X	93358-5	(4)	[E]				
-X2X	93358-2	(4)	[B]	-X8X	93358-8	(4)	[U]				
-X3X	93358-3	(4)	[V]	-XEX	93358-A	(4)	[SP]				
-X4X	93358-4	(4)	[T]								

	DIAPHRAGM OPTIONS 6661XX-XXX-C															
	★ SERVICE KIT	★ "7" /	"8"		*	"3"		★ "4"		* "	19″		★ "33"			
	- <u>X</u> X = (Ball)				O" Ring			"O" Ring			"O" Ring			"O" Ring		
-XX <u>X</u>	-X <u>X</u> = (Diaphragm)	Diaphragm	Qty	[Mtl]	(3/4″ o.d.)	Qty	[Mtl]	(7/8″ o.d.)	Qty	[Mtl]	(4″ o.d.)	Qty	[Mtl]	(2-3/4" o.d.)	Qty	[Mtl]
-XX1	637165-X1	92755-1	(2)	[N]	Y325-16	(2)	[B]	Y325-208	(2)	[B]	Y325-342	(4)	[B]	Y325-230	(8)	[B]
-XX2	637165-X2	94615-G	(2)	[B]	Y325-16	(2)	[B]	Y325-208	(2)	[B]	Y325-342	(4)	[B]	Y325-230	(8)	[B]
-XX3	637165-X3	92755-3	(2)	[V]	Y328-16	(2)	[T]	Y328-208	(2)	[T]	Y327-342	(4)	[V]	Y327-230	(8)	[V]
-XX4	637165-X4	94617 / 94616	(2)	[T/SP]	Y328-16	(2)	[T]	Y328-208	(2)	[T]	95910	(4)	[T]	93363-1	(8)	[T]
-XX5	637165-X5	92755-5	(2)	[E]	Y328-16	(2)	[T]	Y328-208	(2)	[T]	95912	(4)	[E]	92761	(8)	[E]
-XX9	637165-X9	94615-9	(2)	[H]	Y328-16	(2)	[T]	Y328-208	(2)	[T]	Y327-342	(4)	[V]	Y327-230	(8)	[V]
-XXB	637165-XB	94615-A	(2)	[SP]	Y328-16	(2)	[T]	Y328-208	(2)	[T]	95912	(4)	[E]	92761	(8)	[E]
-XX6	48496806	48490064	(2)	[CP]							95910	(4)	[T]	93363-1	(8)	[T]

	DIAPHRAGM OPTIONS 6661X <u>X</u> -XX <u>X</u> -C									
		P	olypropyl 6661X <u>3</u> -	P.V.D 6661						
ltem	Description (size)	Qty	Part No.	[Mtl]	Part No.	[Mtl]				
□6	Diaphragm Nut*	(2)	93243-1	[P]	93243-2	[K]				
15	Fluid Cap	(2)	94905-1	[P]	93244-2	[K]				
34	Manifold, Outlet (Top)	(2)	93242-1	[P]	93242-2	[K]				
35	Manifold, Foot (Bottom)	(2)	93241-1	[P]	93241-2	[K]				
36	Swivel	(2)	93825-1	[P]	93825-2	[K]				

MATERIAL CODE						
[B] = Nitrile $[C] = Carbon Steel$ $[CP] = Composite PTFE$ $[E] = E.P.R.$ $[H] = Hytrel$ $[K] = PV.D.F. (Kynar)$ $[N] = Neoprene$ $[P] = Polypropylene$ $[SH] = Hard Stainless Steel$ $[SP] = Santoprene$ $[SS] = Stainless Steel$ $[T] = PTFE$ $[U] = Polyurethane$ $[V] = Viton$						

* For 6661XX-XX6-C, diaphragm nut (6) is not required.

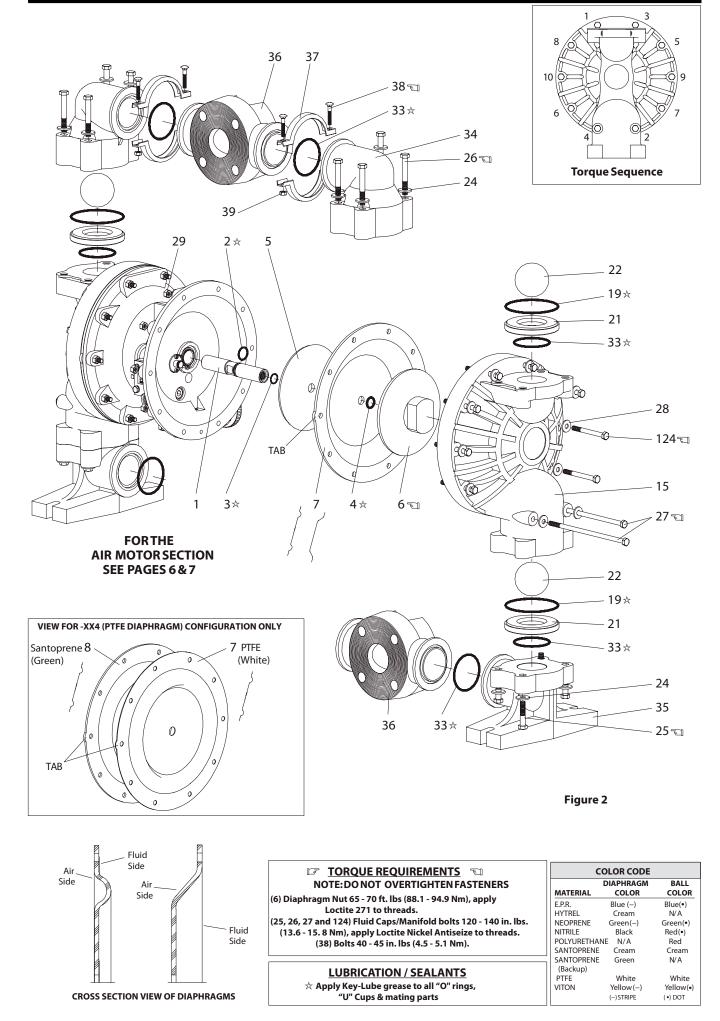
	COMMON PARTS									
ltem	Description (size)	Qty	Part No.	[Mtl]		ltem	Description (size)	Qty	Part No.	[Mtl]
□ 1	Rod (for 6661XX-XX6-C)	(1)	48489819	[C]		28	Washer (5/16")	(20)	93359-1	[SS]
	(for other models)	(1)	98720-1	[C]		29	Nut (5/16"-18)	(20)	Y12-5-S	[SS]
2	"O" Ring (3/32" x 1" o.d.)	(1)	Y330-117	[B]		30	Shim (for 6661XX-XX6-C)	(♦)	48499875*	[C]
5	Plate (for 6661XX-XX6-C)	(2)	48496673	[C]		□ 37	Clamp	(8)	93357-1	[SS]
	(for other models)	(2)	92752	[C]		38	Bolt (1/4"-20 x 1-1/2")	(8)	Y84-403-T	[SS]
24	Washer (3/8")	(16)	93360-1	[SS]		39	Nut (1/4"-20)	(8)	Y12-4-S	[SS]
25	Bolt (3/8"-16 x 1-3/4")	(8)	Y6-68-T	[SS]		124	Bolt (5/16"-18 x 3-1/4") (for 6661XX-XX6-C)	(16)	47510438001	[SS]
26	Bolt (3/8"-16 x 2-3/4")	(8)	Y6-612-T	[SS]			(for other models)	(16)	Y6-514-T	[SS]
27	Bolt (5/16"-18 x 73/4")	(4)	93366-1	[SS]]					

• The quantity is between 0 to 5, shims are not shown in the exploded view.

* For service, shim pack (48499339) can be purchased, refer to diaphragm service kit manual 48495949 for details.

□ "Smart Parts" keep these items on hand in addition to the Service Kits for fast repair and reduction of down time.

PARTS LIST / 6661TX-X-C FLUID SECTION



PARTS LIST / 6661TX-X-C 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.

ltem	Description (size)	Qty	Part No.	[Mtl]
101	Motor Body (6661 <u>T</u> X-XXX-C)	(1)	94744	[A]
	(6661 <u>U</u> X-XXX-C)	(1)	94742	[CI]
√ 102	"O" Ring (1/16" x 11/4" o.d.)	(2)	Y325-24	[B]
□ 103	Sleeve	(1)	94528	[D]
√ 104	Retaining Ring, TruArc (1-5/32" i.d.)	(2)	Y145-26	[C]
105	Screw (1/4"-20 x 5/8")	(8)	Y6-42-T	[SS]
106	Lockwasher (1/4")	(8)	Y14-416-T	[SS]
107	Plate	(2)	93707-1	[SS]
√ 108	Gasket (with notch)	(1)	92878	[B/NY]
□ 109	Piston	(1)	92011	[D]
√ 110	"U" Cup (3/16" x 13/8" o.d.)	(1)	Y186-51	[B]
□ 111	Spool (6661 <u>T</u> X-XXX-C)	(1)	92005	[A]
	(6661 <u>U</u> X-XXX-C)	(1)	93047	[C]
□ 112	Washer (1.557" o.d.)	(5)	92877	[Z]
√ 113	"O" Ring (small) (1/8" x 1-1/4" o.d.)	(5)	Y325-214	[B]
√ 114	"O" Ring (large) (3/32" x 1-9/16" o.d.)	(6)	Y325-126	[B]
□ 115	Spacer	(4)	92876	[Z]

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 necessary. 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-torgue fasteners following restart.

PILOT VALVE DISASSEMBLY

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

PILOT VALVE REASSEMBLY

- Replace two (102) "O" rings if worn or damaged and rein-1. stall (103) sleeve.
- Install one of the (121) sleeve bushings, (119) "O" rings, 2. (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.

ltem	Description (size)	Qty	Part No.	[Mtl]
□ 116	Spacer	(1)	92006	[Z]
√ 117	Gasket	(1)	92004	[B/NY]
118	Pilot Rod	(1)	93309-2	[C]
√ 119	"O" Ring (1/8" x 3/4" o.d.)	(4)	93075	[U]
120	Spacer	(3)	115959	[Z]
121	Sleeve Bushing	(2)	98723-2	[Bz]
√ 122	"O" Ring (3/32" x 9/16" o.d.)	(2)	94820	[U]
√ 123	Screw (#8-32 x 3/8")	(4)	Y154-41	[C]
126	Pipe Plug (1/2-14 N.P.T. x 17/32")	(1)	Y227-5-L	[C]
127	90° Street Elbow (3/4-14 N.P.T.)	(1)	Y43-5-C	[C]
128	Pipe Plug (1/8-27 N.P.T. x 1/4")	(1)	Y227-2-L	[C]
195	Button Head Screw (1/4"-20 x 1/4")	(3)	94987	[SS]
201	Muffler	(1)	93139	[P]
231	Pipe Plug (6661 <u>U</u> X-X only)	(2)	Y17-51-S	[SS]
\checkmark	Key-Lube "O" Ring Lubricant	(1)	93706-1	
	Key-Lube Packets (10)		637175	

MATERIAL CODE

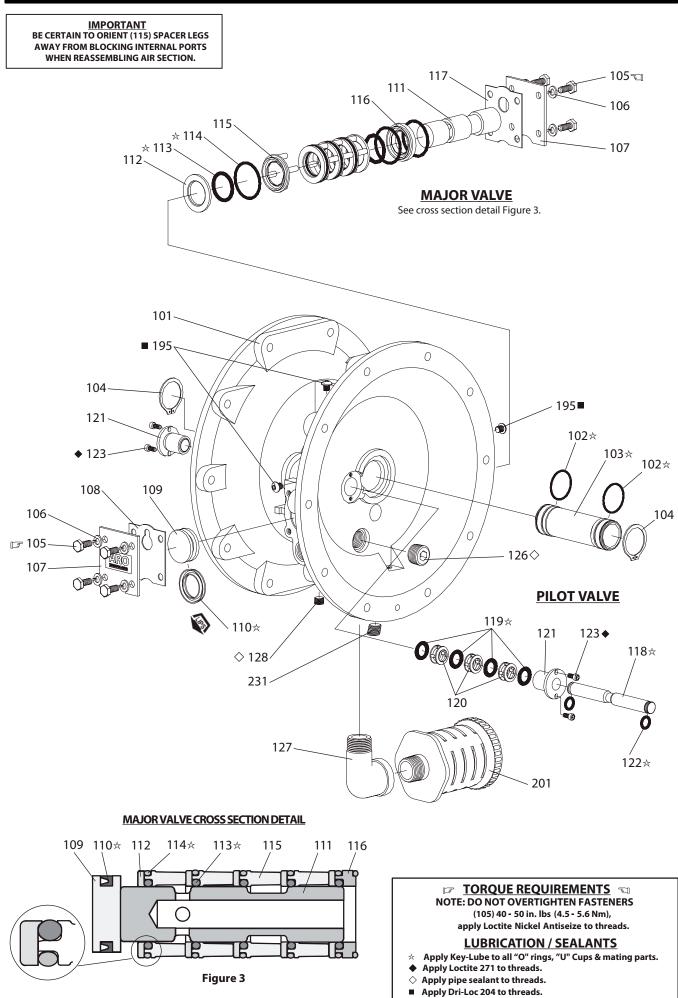
[A] = Aluminum [SS] = Stainless Steel [CI] = Cast Iron [B] = Nitrile [D] = Acetal [U] = Polyurethane [Bz] = Bronze [NY] = Nylon [Z] = Zinc[C] = Carbon Steel [P] = Polypropylene

MAJOR VALVE DISASSEMBLY

- Remove (107) plate (or leg depending on model), (108 1. and 117) gaskets.
- On the side opposite the air inlet, push on the inner di-2. ameter (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

- 1. 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.
- Install (117) gasket and (107). 3.
- 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 replace (107).



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

