1:1, 3:1 and 5:1 RATIO
AIR OPERATED OIL PUMPS

Instruction & Parts Manual

This manual covers the following model pumps

P/N 32091
P/N 32095

P/N 20094T
P/N 20073T
P/N 20001T

P/N 21094T
P/N 21073T
P/N 21100T

P/N 21200
P/N 21300

This manual contains important warnings and information. READ AND KEEP FOR REFERENCE.
Introduction:
Liquidynamics air operated pumps are used to pump engine oil, gear oil, hydraulic fluid, transmission fluid, 100% antifreeze and similar fluids used in the automobile and truck service industry.

Service and Warranty:
Liquidynamics oil pumps are covered by a limited five year warranty. For parts or service information, call your local distributor or Liquidynamics at 800-894-3572. Please be ready to provide model number and serial number or date of manufacture found on the "Liquidynamics" model number decal on each pump.

Reference the exploded parts drawings found in this manual for specific repair part numbers.

Technical Data:

<table>
<thead>
<tr>
<th>Part Number (w/ Bung Adapter)</th>
<th>32091</th>
<th>32095</th>
<th>20001T</th>
<th>20001T-S2</th>
<th>20007T-S2</th>
<th>20009T-S2</th>
<th>20009T-S2</th>
<th>21100T</th>
<th>21073T</th>
<th>21100T-S2</th>
<th>21094T-S2</th>
<th>21200-S1</th>
<th>21300-S1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number (w/ Bung Adapter)</td>
<td>32091-S1</td>
<td>32095-S1</td>
<td>20001T-S2</td>
<td>20001T-S2</td>
<td>20007T-S2</td>
<td>20009T-S2</td>
<td>20009T-S2</td>
<td>21100T-S2</td>
<td>21073T-S2</td>
<td>21100T-S2</td>
<td>21094T-S2</td>
<td>21200-S1</td>
<td>21300-S1</td>
</tr>
<tr>
<td>Flow Rate @90PSI (GPM)</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>8</td>
<td>12</td>
</tr>
<tr>
<td>Maximum Air Pressure (PSI)</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>120</td>
<td>120</td>
</tr>
<tr>
<td>Air Inlet Size</td>
<td>1/4” NPT</td>
<td>1/4” NPT</td>
<td>1/4” NPT</td>
<td>1/4” NPT</td>
<td>1/4” NPT</td>
<td>1/4” NPT</td>
<td>1/4” NPT</td>
<td>1/4” NPT</td>
<td>1/4” NPT</td>
<td>1/4” NPT</td>
<td>1/4” NPT</td>
<td>3/8” NPT</td>
<td>3/8” NPT</td>
</tr>
<tr>
<td>Fluid Inlet Size</td>
<td>1” NPT</td>
<td>-</td>
<td>1” NPT</td>
<td>-</td>
<td>-</td>
<td>1” NPT</td>
<td>-</td>
<td>-</td>
<td>1½” NPTF</td>
<td>1½” NPTF</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fluid Outlet Size</td>
<td>1/2” NPTF</td>
<td>1/2” NPTF</td>
<td>1/2” NPTF</td>
<td>1/2” NPTF</td>
<td>1/2” NPTF</td>
<td>1/2” NPTF</td>
<td>1/2” NPTF</td>
<td>1/2” NPTF</td>
<td>1/2” NPTF</td>
<td>1/2” NPTF</td>
<td>1/2” NPTF</td>
<td>3/4” NPTF</td>
<td>3/4” NPTF</td>
</tr>
<tr>
<td>Noise</td>
<td>79 db</td>
<td>79 db</td>
<td>79 db</td>
<td>79 db</td>
<td>79 db</td>
<td>79 db</td>
<td>79 db</td>
<td>79 db</td>
<td>79 db</td>
<td>79 db</td>
<td>79 db</td>
<td>79 db</td>
<td>79 db</td>
</tr>
<tr>
<td>Air Consumption (cfm)</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>Suction Tube Diameter</td>
<td>1.65”</td>
<td>1.65”</td>
<td>1.65”</td>
<td>1.65”</td>
<td>1.65”</td>
<td>1.65”</td>
<td>1.65”</td>
<td>1.65”</td>
<td>2”</td>
<td>2”</td>
<td>2”</td>
<td>6/1”</td>
<td>6/1”</td>
</tr>
<tr>
<td>Suction Tube Length</td>
<td>11”</td>
<td>37”</td>
<td>11”</td>
<td>29”</td>
<td>37”</td>
<td>11”</td>
<td>29”</td>
<td>37”</td>
<td>6/1”</td>
<td>6/1”</td>
<td>6/1”</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fits Drum Sizes (Gal.)</td>
<td>Universal</td>
<td>55</td>
<td>Universal</td>
<td>16/30</td>
<td>55</td>
<td>Universal</td>
<td>16/30</td>
<td>55</td>
<td>Universal</td>
<td>Universal</td>
<td>Universal</td>
<td>Universal</td>
<td></td>
</tr>
<tr>
<td>Shipping Weight, lbs.</td>
<td>11</td>
<td>14</td>
<td>10</td>
<td>13</td>
<td>15</td>
<td>12</td>
<td>14</td>
<td>16</td>
<td>19</td>
<td>21</td>
<td>21</td>
<td>21</td>
<td>21</td>
</tr>
</tbody>
</table>

Note: For longer pump life and efficiency, we recommend the use of dried air or an air filter. As with any pneumatic equipment, you can expect longer trouble free operation with the use of clean, dry air. The use of an air drier, separator, or minimally an air filter, is advantageous. Refer to the catalog for Liquidynamics selection of air regulators, separators (filter) and dryers.

General
Liquidynamics oil pumps are supplied completely assembled and ready to use.

The use of an air filter and regulator (figure 1) is recommended to control pumping rate and ensure a clean air supply.

These pumps typically operate in the pressure range of 60-120 PSI. Actual operating air pressure is determined by the type of fluid to be pumped, fluid temperature, pumping distance, plumbing size, plumbing restrictions and desired flow rate.

Operating air pressure in excess of 120 PSI may cause pump damage and/or reduce pump life.

Installation
1.) Drum Pumps
Models 20073T and 21073T are designed for use with 16 gallon (120 lb) drums, models 20094T, 21094T and
32095 are designed for use with 55 gallon (420 lb) drums. These pumps may be installed as follows:

a. Attach the 2" bung adapter, P/N 22157 (item A, fig 2), to the 2" opening at the top of the drum.
b. Slide the pump into the bung adapter previously installed in step #1 above.
c. Tighten the wing nut, item B, fig. 2, on bung adapter to secure the pump at the desired height.

b. Attach extension pipe to stub pump taking care to use a thread sealant on both ends of pipe as it is threaded into the pump and foot valve, fig. 3.

c. Attach bung adapter to 2" tank opening, fig. 5, item A

d. Slide the assembled pump into bung adapter and tighten wing nut, fig. 5, item B, to secure pump at the desired height.

e.) Air Supply: Attach the male portion of a 1/4" (use 3/8" fitting for pump models 21200 and 21300) air quick coupler at the air inlet of the pump or air filter/regulator (item A, fig. 6). This allows a quick and easy method to disconnect the air supply when the pump is being moved or not in use.

2.) Universal “Stub” Pumps, fig. 3. Stub pumps may be fitted with a 1" NPT extension pipe and foot valve, P/N 950002 to adapt to most any tank situation (use 1 1/2" in the case of high flow pump P/Ns 21200 and 21300 with 1 1/2" foot valve, P/N 950047). Alternatively, these pumps may be wall mounted with the use of an available wall mounting bracket, P/N 22242 or P/N 22243, fig. 4.

a. Determine length of extension pipe required to reach bottom of tank by using the extension pipe data chart below:

---

**CAUTION**

It is important to disconnect or shut off supply air to the pump when left unattended, this prevents the possibility of the pump emptying the fluid container in case of a plumbing leak or catastrophic product line failure.

---

**Extension pipe data chart**

**1:1**

- Length 27 1/2" (Foot Valve P/N 950002)

**3:1**

- Length 21 1/2" (Foot Valve P/N 950002)

**5:1**

- Length 21 1/2" (Foot Valve P/N 950002)

**5:1, 8 GPM**

- Length 24" (Foot Valve P/N 950007)

**5:1, 12 GPM**

- Length 27" (Foot Valve P/N 950047)
3.) Oil Discharge:
   a. Connect the desired length of 1/2" NPTM hose to the oil discharge port of the pump (fig. 7).
   b. Connect an oil control valve or meter to the discharge side of the hose.
   c. The pump is now ready for operation by attaching an air supply to the quick connect fitting installed above.

Operation Notes:
   1.) Priming, suction:
   In cases where the pump must prime a long distance, such as when the pump is wall mounted, it may be necessary to initially prime the suction hose with fluid to be pumped. Apply air to the pump slowly at a lower than normal operating pressure. Once the pump has primed itself, then adjust air pressure to the desired operating pressure.

   2.) Priming, discharge:
   Upon initial operation of the pump, it is suggested that a short length of hose be attached to the discharge of the pump and then pump a small quantity of fluid into an appropriate container prior to connecting the pump discharge hose to its normal connection. This ensures that the pump is fully primed.

3.) Foot Valve:
   Due to the varying lengths of user installed suction pipes being connected to stub pumps, models 20001T, 21100T, 21200, 21300 and 32091 it is recommended to install a foot valve, (fig. 8) P/N 950002 (P/N 950047 for pump models 21200 and 21300). This helps to maintain pump prime and prevents air from being introduced into the system, which may affect metering accuracy and possibly cause the pump to air lock.

   Note: Models 20073T, 20094T, 21073T, 20094T and 32095 come complete with foot valves and are intended for use in 16 and 55 gallon drums. It is not necessary to install any additional foot valves in this case.

4.) Relief Valve:
   Thermal expansion of fluid is an industry wide problem that may cause leaky pipe joints, swivel leaks on reels, meter and control handle leaks, blistered hoses and component failures, to mention just a few “common” problems.

   Thermal expansion results from fluid expanding due to temperature increases. This can occur most any time of the year but is most prevalent in the summer and winter. In the summer, thermal heating by the sun may cause temperatures near the ceiling, where oil lines are typically located, to reach 120 to 140 deg F or higher. In the winter, heating systems cause ceiling temperatures to be significantly higher than temperatures at ground level, where oil storage tanks are located. In a closed system, there is an approximate 44 PSI increase in pressure for every degree F rise in fluid temperature.

   Thermal expansion valve kits, (fig. 9) P/N 540025 or 540037 are recommended for use in installations where thermal expansion may be a problem. These kits will prevent over pressurization by relieving excess pressure back to the supply tank.

   Contact Liquidynamics at 800-894-3572 if you have any questions regarding applications or installation.

Maintenance
   1.) On a day to day basis these pumps are maintenance free. For your future reference regarding replacement of components, please refer to the appropriate exploded parts diagram.

   2.) To maintain system integrity it is recommended to periodically inspect all system components for evidence of excessive wear or leaks. Particular attention should be given to wear items such as hoses and swivel joints.

   3.) Contact Liquidynamics at 800-894-3572, or your local distributor for repair components and kits.
Exploded Parts Items – Models 32091 and 32095

Repair Kits:

- **P/N S3640** Air Motor Seal & Slide Kit
  2, 6, 8, 10, 12, 21, 22, 23, 25, 28, 29, 31, 32, 33, 38, 40

- **P/N S3640-20** Same as S3640 but for use with pumps built prior to S/N D04.

- **P/N S3642** Shuttle Kit
  17, 18, 19 (2 ea.)

- **P/N S3649** Wet-side Repair Kit
  73, 77, 78, 80, 81, 85, 86, 87

- **P/N S3650** Ball Check Kit
  85, 86, 87, 88

Individual Repair Components:

1. P/N S3612-03 Cap, cylinder, outer
2. P/N S3612-04 Cylinder, Inner
3. P/N S3612-05 Nut, Cap
4. P/N S3612-07 Washer
5. P/N S3612-09 Connector
6. P/N S3612-11 Rod, Upper
7. P/N S3612-14 Retainer, Muffler
8. P/N S3612-15 Muffler
9. P/N S3612-16 Screw, Cap
10. P/N S3612-20 Body, Air Motor
11. P/N S3612-26 Seal, Guide
12. P/N S3612-27 Shaft
14. P/N S3612-35 Rod, Lower
15. P/N S3612-36 Body, Toggle
16. P/N S3612-45 Retaining Clip
17. P/N S3612-39a Cap screw, air inlet
18. P/N S3612-39a Filter, air
19. P/N S3612-39b O Ring
20. P/N S3612-39c Adapter, 1/4”
21. P/N S3612-60 Fitting, Discharge, 1/2” NPTF
22. P/N S3612-68 Washer, Metal
23. P/N S3612-72 Fitting, Upper
24. P/N S3612-75a Shaft (for 32091)
25. P/N S3612-75a Shaft (for 32095)
26. P/N S3612-79 Piston
27. P/N S3612-82 Washer
28. P/N S3612-83 Nut
29. P/N S3612-84 Cylinder, Upper
30. P/N S3612-88 Fitting, Lower
31. P/N S3612-89 Cylinder (for 32091)
32. P/N S3612-89a Cylinder (for 32095)
33. P/N S3652 Inlet Ball Check Kit
Exploded Parts Items – Models 20001T, 20073T and 20094T:

**Repair Kits:**

<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P/N S3640</td>
<td>Air Motor Seal &amp; Slide Kit 2, 6, 8, 10, 12, 21, 22, 25, 28, 29, 31, 32, 33, 38, 40</td>
</tr>
<tr>
<td>P/N S3640-20</td>
<td>Same as S3640 but for use with pumps built prior to S/N D04.</td>
</tr>
<tr>
<td>P/N S3642</td>
<td>Shuttle Kit 17, 18, 19 (2 ea.)</td>
</tr>
<tr>
<td>P/N S3643</td>
<td>Wet-side Repair Kit 44, 46, 50, 53, 54, 64,</td>
</tr>
</tbody>
</table>

**Individual Repair Components:**

<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P/N S3612-03</td>
<td>Cap, cylinder, outer</td>
</tr>
<tr>
<td>P/N S3612-04</td>
<td>Cylinder, Inner</td>
</tr>
<tr>
<td>P/N S3612-05</td>
<td>Nut, Cap</td>
</tr>
<tr>
<td>P/N S3612-07</td>
<td>Washer</td>
</tr>
<tr>
<td>P/N S3612-09</td>
<td>Connector</td>
</tr>
<tr>
<td>P/N S3612-11</td>
<td>Rod, Upper</td>
</tr>
<tr>
<td>P/N S3612-14</td>
<td>Retainer, Muffler</td>
</tr>
<tr>
<td>P/N S3612-15</td>
<td>Muffler</td>
</tr>
<tr>
<td>P/N S3612-16</td>
<td>Screw, Cap</td>
</tr>
<tr>
<td>P/N S3612-20</td>
<td>Body, Air Motor</td>
</tr>
<tr>
<td>P/N S3612-26</td>
<td>Seal, Guide</td>
</tr>
<tr>
<td>P/N S3612-27</td>
<td>Shaft</td>
</tr>
<tr>
<td>P/N S3612-30</td>
<td>Guide, Slide</td>
</tr>
<tr>
<td>P/N S3612-35</td>
<td>Rod, Lower</td>
</tr>
<tr>
<td>P/N S3612-36</td>
<td>Body, Toggle</td>
</tr>
<tr>
<td>P/N S3612-39a</td>
<td>Cap screw, air inlet</td>
</tr>
<tr>
<td>P/N S3612-13a</td>
<td>Filter, air</td>
</tr>
<tr>
<td>P/N S3612-13b</td>
<td>O Ring</td>
</tr>
<tr>
<td>P/N S3612-13c</td>
<td>Adapter, 1/4&quot;</td>
</tr>
<tr>
<td>P/N S3612-43</td>
<td>Coupler</td>
</tr>
<tr>
<td>P/N S3612-45</td>
<td>Retaining Clip</td>
</tr>
<tr>
<td>P/N S3612-47</td>
<td>Shaft (for 20001T)</td>
</tr>
<tr>
<td>P/N S3612-47a</td>
<td>Shaft (for 20073T)</td>
</tr>
<tr>
<td>P/N S3612-47b</td>
<td>Shaft (for 20094T)</td>
</tr>
<tr>
<td>P/N S3612-48</td>
<td>Fitting, Coupler</td>
</tr>
<tr>
<td>P/N S3612-49</td>
<td>Cage</td>
</tr>
<tr>
<td>P/N S3612-51</td>
<td>Ball Check</td>
</tr>
<tr>
<td>P/N S3612-52</td>
<td>Fitting, Tube, Upper</td>
</tr>
<tr>
<td>P/N S3612-55</td>
<td>Tube (for 20001)</td>
</tr>
<tr>
<td>P/N S3612-55a</td>
<td>Tube (for 20073)</td>
</tr>
<tr>
<td>P/N S3612-55b</td>
<td>Tube (for 20094)</td>
</tr>
<tr>
<td>P/N S3612-60</td>
<td>Fitting, Discharge 1/2&quot; NPTF</td>
</tr>
<tr>
<td>P/N S3612-68</td>
<td>Washer, Metal</td>
</tr>
<tr>
<td>P/N S3648</td>
<td>Foot Valve Assembly</td>
</tr>
</tbody>
</table>
Exploded Parts Items – Models 21100T, 21073T and 21094T:

**Repair Kits:**

<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S3644</td>
<td>Air Motor Seal &amp; Slide Kit 2, 6, 8, 10, 12, 14, 15, 24, 25, 26, 29, 31, 32, 34, 35, 36, 37, 41</td>
</tr>
<tr>
<td>S3644-20</td>
<td>Same as S3644 but for use with pumps built prior to S/N D04.</td>
</tr>
<tr>
<td>S3642</td>
<td>Shuttle Kit 20, 21, 22 (2 ea.)</td>
</tr>
<tr>
<td>S3643</td>
<td>Wet-side Repair Kit 44, 46, 50, 53, 54, 64</td>
</tr>
</tbody>
</table>

**Individual Repair Components:**

1. P/N S3620-01 Cap
2. P/N S3620-03 Cylinder, Inner
3. P/N S3620-04 Cylinder, Outer
4. P/N S3612-05 Nut, Cap
5. P/N S3612-07 Washer
6. P/N S3612-09 Connector
7. P/N S3612-11 Rod, Upper
8. P/N S3620-13 Adapter, Body 5:1
9. P/N S3612-15 Muffler
10. P/N S3612-14 Retainer, Muffler
11. P/N S3612-16 Screw, Cap
12. P/N S3612-20 Body, Air Motor
13. P/N S3612-26 Seal, Guide
14. P/N S3612-27 Shaft
15. P/N S3612-30 Guide, Slide
16. P/N S3612-35 Rod, Lower
17. P/N S3612-36 Body, Toggle
18. P/N S3612-39a Cap Screw, Air Inlet
19. P/N S3612-13a Filter, Air
20. P/N S3612-13b O Ring
21. P/N S3612-13c Adapter, 1/4"
22. P/N S3612-43 Coupler
23. P/N S3612-45 Retaining Clip
24. P/N S3612-47 Shaft (for 21100)
25. P/N S3612-47a Shaft (for 21073)
26. P/N S3612-47b Shaft (for 21094)
27. P/N S3613-48 Fitting, Coupler
28. P/N S3613-49 Cage, spring
29. P/N S3613-51 Ball Check
30. P/N S3613-52 Fitting, Tube, Upper
31. P/N S3612-55 Tube (for 21100T)
32. P/N S3612-55a Tube (for 21073T)
33. P/N S3612-55b Tube (for 21094T)
34. P/N S3612-60 Fitting, Discharge 1/2" NPTF
35. P/N S3612-68 Washer, Metal
36. P/N S3613-68 Fitting, Discharge 1/2" NPTF
37. P/N S3612-68 Washer, Metal
38. P/N S3648 Foot Valve Assembly
Exploded Parts Items – Models 21200:

Repair Kits:
- P/N S3664 Air Motor Seal & Slide Kit
  2, 7, 8, 10, 11, 14, 15, 26, 27, 28, 30, 31, 32, 34, 35, 36, 39, 40
- P/N S3642 Shuttle Kit
  22, 23, 24 (2 ea.)
- P/N S3661 Wet-side Repair Kit
  14, 50, 52, 53, 54, 56, 57, 59, 62, 68, 70,

Individual Repair Components:
1  P/N S3665-01  Cap
2  P/N S3665-03  Cylinder, Inner
3  P/N S3665-04  Cylinder, Outer
4  P/N S3612-05  Nut, Cap
5  P/N S3612-07  Washer
6  P/N S3612-09  Connector
12a P/N S3665-12a  Rod, Upper
12b P/N S3665-12b  Rod, Lower
13  P/N S3665-13  Adapter, Body 5:1
16  P/N S3665-16  Muffler, Disc
17  P/N S3665-17  Retainer, Muffler
20  P/N S3612-36  Toggle
21  P/N S3612-16  Screw, Cap
25  P/N S3665-25  Body, Air Motor
29  P/N S3612-26  Seal, Guide
33  P/N S3612-30  Guide, Slide
37  P/N S3612-39a  Cap Screw, Air Inlet
37a P/N S3612-13a  Filter, Air
37b P/N S3612-13b  O Ring
37c P/N S3612-13c  Air Inlet, 1/4”
41  P/N S3665-41  Shaft, Air Motor
42  P/N S3612-45  Retaining Clip
51  P/N S3671-51  Cylinder, Extension, 8 GPM
55  P/N S3671-55  Piston, 8 GPM
58  P/N S3670-58  Ball Check
60  P/N S3665-60  Fitting, Discharge 3/4” NPTF
61  P/N S3670-61  Ball Check, Seat
63  P/N S3671-63  Cylinder, Pumping, 8 GPM
64  P/N S3670-64  Tube, Suction, Stub
69  P/N S3670-69  Fitting, Adapter
72  P/N S3612-13d  Adapter, 3/8” Air Inlet
73  P/N S3670-73  Washer, Metal
75  P/N S3670-75  Fitting, Inlet, 1 1/2” NPTF
Exploded Parts Items – Models 21300:

Repair Kits:

- **P/N S3663**  
  Air Motor Seal & Slide Kit  
  2, 6, 9, 11, 12, 14, 30, 31, 32, 34, 37, 38,  
  40, 41, 42, 43, 44, 46

- **P/N S3642**  
  Shuttle Kit  
  26, 27, 28 (2 ea.)

- **P/N S3662**  
  Wet-side Repair Kit  
  14, 50, 52, 53, 54, 56, 57, 59, 62, 65, 66,  
  68, 70

Individual Repair Components:

1. P/N S3665-01 Cap
2. P/N S3668-03 Cylinder, Inner
3. P/N S3668-04 Cylinder, Outer
4. P/N S3612-05 Nut, Cap
5. P/N S3612-07 Washer
6. P/N S3668-08 Rod, Upper
7. P/N S3668-10 Connector
8. P/N S3668-13 Adapter, Body 5:1
9. P/N S3668-15 Rod, Lower
10. P/N S3612-36 Toggle
11. P/N S3668-19 Screw, Retainer
12. P/N S3668-20 Housing, Muffler
13. P/N S3668-22 Spacer, 'O' Ring
14. P/N S3668-21 Muffler, Bronz
15. P/N S3668-24 Retainer, 'C' Clip
16. P/N S3612-16 Screw, Cap
17. P/N S3665-29 Body, Air Motor
18. P/N S3612-26 Seal Guide
19. P/N S3612-45 Retaining Clip
20. P/N S3665-41 Shaft, Air Motor
22. P/N S3612-39 a Cap Screw, Air Inlet
23. P/N S3612-13a Filter, Air
24. P/N S3612-13b O Ring
25. P/N S3612-13c Air Inlet, 1/4"
27. P/N S3670-51 Cylinder, Extension, 12 GPM
28. P/N S3670-55 Piston, 12 GPM
29. P/N S3670-58 Ball Check
30. P/N S3665-60 Fitting, Discharge 3/4" NPTF
31. P/N S3670-61 Ball Check, Seat
32. P/N S3671-63 Cylinder, Pumping, 12 GPM
33. P/N S3670-64 Tube, Suction, Stub
34. P/N S3670-69 Fitting, Adapter
35. P/N S3670-73 Seal, copper, Discharge
36. P/N S3670-60 Fitting, Inlet 1 1/2" NPTF