INSTRUCTIONS FOR USE
50:1 AIR OPERATED BUCKET GREASE PUMP

Congratulations on your purchase of this world class premium construction Air Operated Grease Pump

Features:
1. This is a 50:1 pump & will dispense grease at a pressure equaling approx. 40 - 50 times the Air Inlet Pressure.
2. It comes with a robust steel drum mounted on 2 heavy duty rubberized wheels and a handle for easy mobility and rough workshop use.
3. This system is recommended for applications requiring volume greasing at high pressures in Industry, workshop, farm etc.
4. Precision engineered steel pump construction, machined Aluminium air motor, heavy duty steel drum with rubber lined follower plate, Z swivel & professional grease control valve for excellent performance.
5. CNC machined & 100% factory tested.

Intended use with:
Light & self collapsing grease upto NLGI No. 2

Wetted Components
Steel, Brass, Aluminium, Rubber & Polyurethane

The Pump comes in different configurations. Most popular forms are detailed below:

<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Drum Capacity</th>
<th>Suction Tube Length</th>
<th>Suction Tube Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGRP -30</td>
<td>Pump with movable drum, follower plate, high pressure hose, grease control valve with extension &amp; coupler</td>
<td>30 Kg</td>
<td>17.5/16&quot; (440mm)</td>
<td>1.1/8” (30mm)</td>
</tr>
<tr>
<td>BGRP - 50</td>
<td>Pump with movable drum, follower plate, high pressure hose, grease control valve with extension &amp; coupler</td>
<td>50 Kg</td>
<td>28.3/4&quot; (730mm)</td>
<td>1.1/8” (30mm)</td>
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</table>
GETTING STARTED
Before you start installing the pump, make sure the following are available

1. **Clean Supply of Air:** This is one of the most important aspects for life of your pump. Make sure air quality is very good i.e without any contaminants/moisture. This can be obtained by installing a Filter Unit in the air line, before the line is put into the air inlet port on the pump.

2. **Regulator:** Since compressed air may be used at many points in your shop, air pressure in the line will keep fluctuating. It is important to use an Air Regulator in the air line which will maintain constant pressure. Recommended Air pressure is 85 PSI (6 BAR). Air pressure must **NEVER** increase beyond 115 PSI (8 BAR) as that may cause the pump to cease. At the same time, it must not fall below 60 PSI (4 BAR) as it will make priming difficult.

3. **Lubricator:** Pump needs constant lubrication & a lubricator unit must be installed in the air line.

INSTALLATION
1. Clean the drum thoroughly and fill the drum with Grease leaving empty space of about 2” from the top rim.
2. Shake the drum after it is filled to remove air pockets.
3. Place the follower plate in the grease drum with the lift handle facing upwards. Push the follower plate down, until some grease is forced through the centre hole on the plate.
4. Place the drum cover on the drum.
5. Lift the pump assembly & slide the suction tube through the drum cover & centre hole in the follower plate. Push the pump assembly down till the bottom of the pump touches the base of the drum. Adjust the drum cover and tighten it with the screws provided along with the drum.
6. Tighten the drum cover with the pump suction tube with the help of thumb screws.
7. Connect high pressure hose to the pump outlet. Use the thread sealant to ensure leak-proof connection.
8. Connect the other end of the hose to the grease control valve assembly. It is recommended to use a swivel between the hose & control valve. Connect the outlet extension & coupler to the control valve outlet. Use thread sealant on all connections to ensure leak-proof working.
9. With the air supply turned off, connect the Air line into the air inlet on the pump. An FRL (Filter-Regulator-Lubricator) unit must be used in the Air supply, before it is connected to the pump.
10. Set the regulator to 6 BAR (85 PSI) or any required inlet pressure, but never more than 115 PSI (8 BAR) or less than 60 PSI (4 BAR).

OPERATION
1. Partially open the on/off air valve. Pump will start operating automatically until it gets primed. Once primed, the air motor will stop.
2. Open the on/off air valve fully.

**Pump Specifications:**
- **Air Inlet:** ¼” (F)
- **Pump Outlet:** ¼” (F)
- **Working Pressure:** 85-115 PSI (6-8 BAR)***
- **Maximum Air Pressure:** 115 PSI (8 BAR)***
- **Air Consumption:** 230 lt/min (61 GPM)
- **Discharge (NLGI No. 2):** 1.100 kg / min (2.40 lbs / min)**
- **Noise Level:** 81 db

**Measured at pump outlet using NLGI No. 2 Grease at an inlet pressure of 8 BAR (115 PSI) & ambient temperature of 29°C**

***Only natural compressed air to be used**
3. Hold the grease control valve near a waste container & press the trigger. Pump will start operating with continuous grease discharge as long as the trigger is pressed. Release the trigger & this will stop the pump. Check for any leaks from any of the connections. Tighten all connections as required
4. To grease, connect coupler fitted onto the control valve extension with the greasing point (grease nipple) & press trigger. Be careful not to over lubricate as the pump will keep dispensing grease as long as the trigger is pressed. Once the trigger is released, pump will stop dispensing grease & the air motor will stop
5. When not in use & at the end of each day, air supply to the pump must be switched off

**TROUBLESHOOTING**

<table>
<thead>
<tr>
<th>Sr. Nr</th>
<th>PROBLEM</th>
<th>CAUSES</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Air motor operates, but does not dispense any grease</td>
<td>Grease is too thick / too cold</td>
<td>1. Use NLGI No. 2 grease. Store grease in a warm place</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Air pockets in grease</td>
<td>2. Shake the grease drum &amp; manually force down the follower plate to remove air pockets</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Inlet pressure is too less</td>
<td>3. Inlet air pressure must at least be 60 PSI (4 BAR). Increase inlet pressure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4. Dent in the drum restricting movement of follower plate leading to formation of air pockets in the drum and inefficient working</td>
<td>4. Get the dent removed to ensure proper movement of follower plate</td>
</tr>
<tr>
<td>2</td>
<td>Air Motor cycles intermittently with the trigger not pressed</td>
<td>Leakage in the assembly</td>
<td>Check all the connections to ensure they are air tight. Use thread sealant.</td>
</tr>
</tbody>
</table>

**Cautions:**

1. Always wear protection gear like safety goggles, gloves, apron, and ear plugs while operating the pump
2. Never let any body part come in front of, or in contact with the control outlet
3. Always cut off air supply after use, so that media can’t leak incase any of the pump component fails
4. Before attempting any maintenance or repair of this product, disconnect air supply and then squeeze control valve trigger to release fluid pressure
5. Before switching the air supply on, check hoses for sign of wear, leak or loose fittings. Replace as necessary
6. In case of accident, immediately seek medical attention. Do not try to treat the injury yourself
7. Use only genuine factory parts for repair
8. Do not smoke when using / near the pump
9. Do not use the pump near a source of spark / open flames
10. In case of change of working fluid, at least 1 ltr (or as desired) of new fluid should be discarded to avoid mixing of fluids
11. Operate pump for not more than 4 hrs continuously
12. Use only natural compressed air for operating the pump