



INSTRUCTIONS FOR USE 3:1 AIR OPERATED OIL PUMP WITH DISPENSER

ODS-31

Congratulations on your purchase of this world-class premium construction Air Operated Oil Pump with dispenser

Features:

1. This is a 3:1 pump & will dispense media at a pressure equaling little less than 3 times the Air Inlet Pressure
2. The pump comes with an Oil Spigot used as a dispenser
3. Precision engineered steel pump construction with machined Aluminum air motor
4. CNC machined & 100% factory tested

Piece Count

1. Pump Assembly
2. Bung Nut
3. Oil Spigot
4. Hardware Connections for attaching Oil Spigot to pump

Intended Use with:

ATF, Engine Oil, Gear Oil, Hydraulic Oil, Oils upto SAE 130, Diesel, Kerosene etc.

Do Not Use with:

Corrosive media, solvents, acids, alkalis, antifreeze, Waste Oil etc.

Wetted Components:

Steel, Brass, Aluminum, Hi Nitrile Rubber, Polyurethane & Turcite

Pump Specifications:

Air Inlet	1/4" (F)
Pump Inlet	1" (F) on stub pump only
Pump Outlet	1/2" (F)
Working Pressure	85-115 PSI (6-8 BAR)***
Maximum Air Pressure	115 PSI (8 BAR)***
Air Consumption	230 lt/min (61 GPM)
Discharge	14 lt/min (3.70 GPM)**
Noise Level Maximum	81 db
Viscosity of Oil	130 SAE

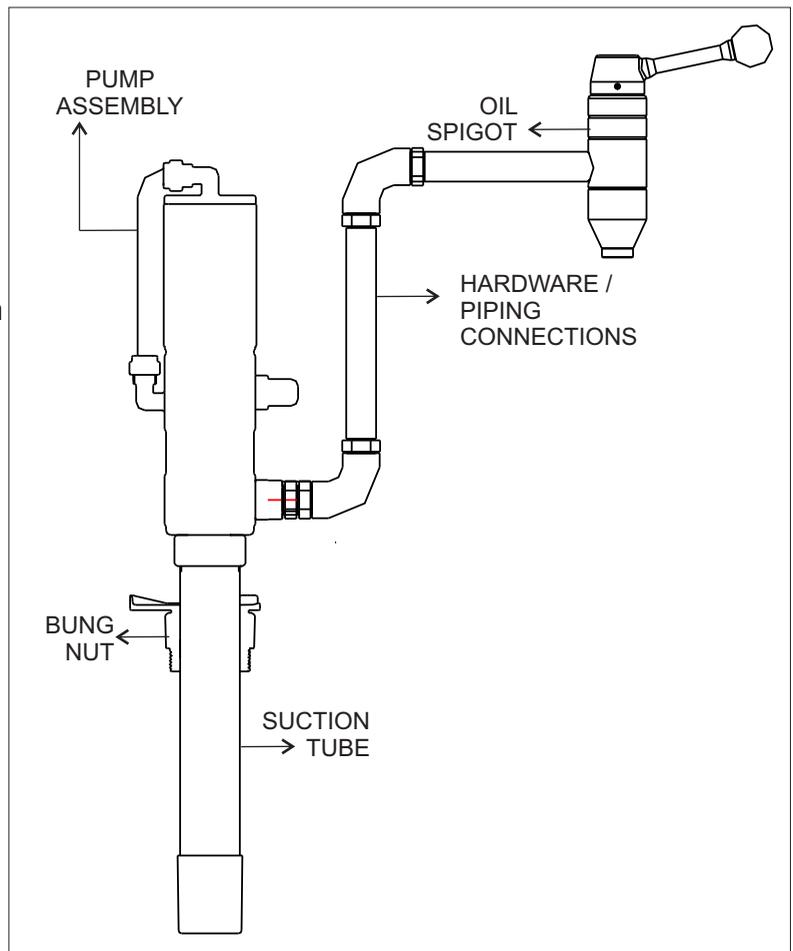
** Measured at pump outlet when not connected with any hose & an inlet pressure of 85 PSI (6 BAR), with SAE 30 oil at ambient temperature of 29°C & may vary under different conditions.

***Only natural compressed air to be used

The Pump comes in a choice of different lengths to suit drums of varying sizes:

MODEL

STUB VERSION - For use on a tank or with a mobile oil system. Recommended when connecting a specially made suction tube or hose assembly to the pump inlet. Pump inlet is



threaded 1" (F). It is advisable to add a Foot valve (available as spare) to the suction tube inlet when using stub pumps

MEDIUM - For use on 16 gallon (50 - 60 litre) drums. Suction tube is 28.3/4" (730 mm) long. Comes fitted with strainer at the tube inlet. Mostly comes with a Bung Nut

FULL LENGTH- For use on 55 gallon (205 litre) drums. Suction tube is 37.3/8" (950 mm) long. Comes fitted with strainer at the tube inlet. Mostly comes with a Bung Nut

GETTING STARTED

Before you start installing the pump, make sure the following are available:

Clean Supply of Air : This is one of the most important for life of your pump. Make sure air quality is very good with no contaminants / moisture. This can be achieved by installing a Filter Unit in the air line , before the line is put into the Air inlet port on the Pump

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 6 BAR (85 PSI). 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 4 BAR (60 PSI) as it will make priming difficult

Lubricator : Pump needs constant Lubrication & a Lubricator unit must be installed in the air line

Suction Tube/ Hose : Required for stub pumps to lift media from drum/tank etc.

Thread Sealant : For applying on all threaded connections

INSTALLATION

DRUM MOUNTING

1. Slide out the Bung Nut from the Suction Tube & screw it into the 2" drum plug opening on the drum
2. Loosen the ring nut on the Bung & carefully insert the pump suction tube through it. Once the Suction tube touches the bottom of the drum , tighten the Ring Nut
3. Connect the "S" Shaped piping connections to the pump outlet. Use a thread sealant to ensure leak-proof connection
4. Now Connect the Oil Spigot to the other end of the "S" shape piping connections. Use a thread sealant to ensure leak-proof connection
5. 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
6. Set the Regulator to 85 PSI (6 BAR) or any required inlet pressure , but never more than 115 PSI (8 BAR) or less than 60 PSI (4 BAR)

STUB MOUNTING

1. Depending upon where the pump is to be mounted (on a mobile oil system, tank, wall etc.), complete the installation which may be done using the bung or any other means. Make sure pump is securely held & that there is open space around the pump exhaust
2. Connect the Suction Hose / Tube to the pump inlet , with the other end in the media being pumped
3. Connect the "S" Shaped piping connections to the pump outlet. Use a thread sealant to ensure leak-proof connection

4. Now Connect the Oil Spigot to the other end of the “S” shape piping connections. Use a thread sealant to ensure leak-proof connection
5. 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
6. Set the Regulator to 85PSI (6 BAR) or any required inlet pressure , but never more than 115 PSI (8 BAR) or less than 60 PSI (4 BAR)

OPERATION

1. Remove the smaller drum plug on the drum on which the pump is to be installed (vent the tank).The smaller plug is used to create equi-pressure inside the drum & must be kept open when using the pump. This creates the required venting for pump operation
2. Partially open the on/off air valve. Pump will start operating automatically until it gets primed. Once primed ,the air motor will stop
3. Open the on/off air valve fully
4. Operate the Oil Spigot, which will actuate the air motor & pump will start dispensing. For large continuous flow, the oil Spigot can be locked in the open position. When doing so , make sure that the pump is not left unmanned
5. When not in use & at the end of each day , air supply to the pump must be switched off

TROUBLESHOOTING

Sr. Nr	PROBLEM	CAUSES	REMEDY
1.	Pump does not dispense fluid	1.Pump not able to create adequate suction 2.Drum is Empty 3.Pump inlet is blocked 4.Inlet Pressure is too Less 5.Drum is not vented	1. Make sure that media used has a viscosity of SAE 130 or lower .Make sure all threaded connections are air tight 2. Media level inside the drum may be too low. Change drum 3.Remove suction tube & clean strainer at pump inlet 4. Inlet Air Pressure must at least be 60 PSI (4 BAR).Increase inlet pressure 5. Open small drum plug on the drum
2	Air Motor does not work	Air motor may have ceased due to inadequate lubrication	Send pump to distributor for repair
3	Air motor operates even without actuating the dispensing gun	Leakages in the assembly	Check all connections to ensure they are air tight



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 valve 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 no 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 liter (or as desired) of new fluid should be discarded to avoid mixing of fluids
11. Operate pump for not more than 4 hours continuously
12. Use only natural compressed air for operating the pump