



# INSTRUCTIONS FOR USE

## 50:1 AIR OPERATED GREASE PUMP

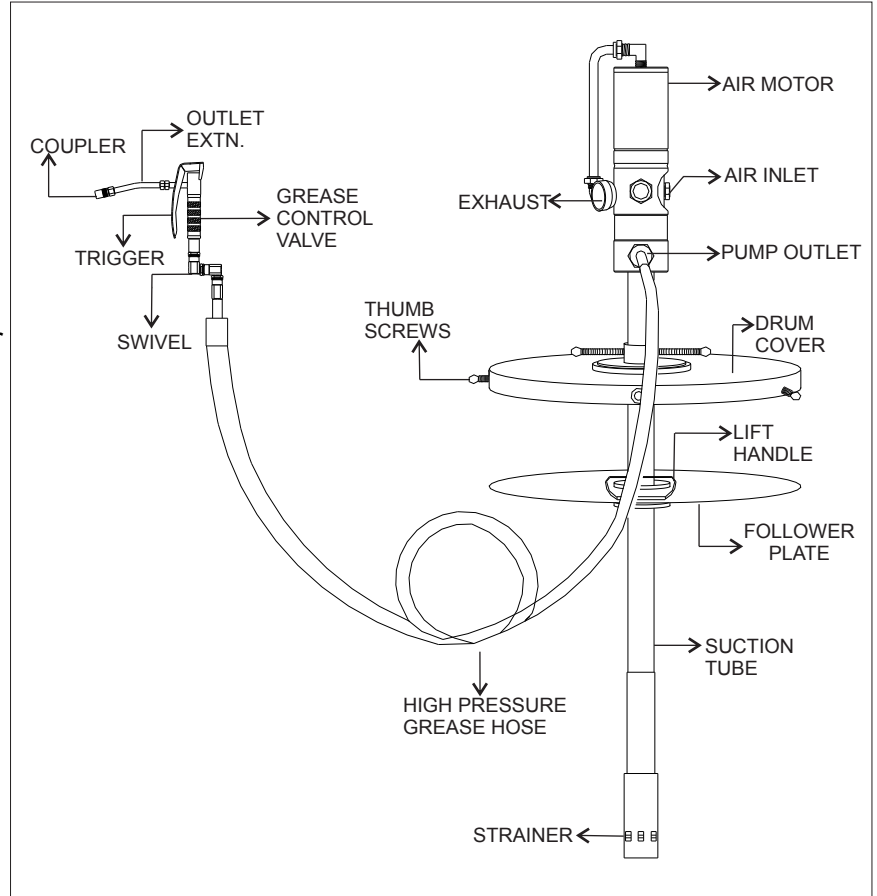
3574GNT  
1213GNT

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. Recommended for applications requiring volume greasing at high pressures in industry, workshops, farm etc.
3. Precision engineered steel pump construction with machined Aluminum air motor
4. CNC machined & 100% factory tested



### Intended use with :

Light & self Collapsing Grease upto NLGI No. 2.

### Wetted Components \*

Steel, Brass, Aluminum & Polyurethane

\* Pump only . Does not include Hose Assembly & accessories

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

Model	Type	For Open Head Drum Size	Suction Tube Length	Suction Tube Diameter
3574GNT	Pump only	25-50lbs/20kg/5gal	17.5/16" (440mm)	1.1/8" (30mm)
1213GNT	Pump only	125lbs/50kg/16gal	28.3/4" (730mm)	1.1/8" (30mm)
3574GNT	Pump with drum cover, follower plate, high pressure hose, swivel, grease control valve with extrn. & coupler	25-50lbs/20kg/5gal	17.5/16" (440mm)	1.1/8" (30mm)
1213GNT	Pump with drum cover, follower plate, high pressure hose, swivel, grease control valve with extrn. & coupler	125lbs/50kg/16gal	28.3/4" (730mm)	1.1/8" (30mm)
1213GNT-ND	Same as 1213GNT less the dolly			
1220GNT-6	Same as 1213GNT less the dolly & air regulator			

### Pump Specifications:

Air Inlet	1/4" (F) @
Pump Outlet	1/4" (F) @
Working Pressure	30-150 PSI (2-10 BAR)***
Maximum Air Pressure	150 PSI (10 BAR)***
Air Consumption	230 lt/min (61 GPM)
Discharge	1.100 kg / min (2.40 lbs / min)**
Noise Level	81 db

\*\* Measured using NLGI No. 2 Grease at an inlet pressure of 8 BAR (1

15 PSI) & ambient temperature of 29°C

\*\*\* Only natural compressed air to be used

@Select models may have different thread specifications

## 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 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
- 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 150 PSI (10 BAR) as that may cause the pump to cease. At the same time , it must not fall below 30 PSI (2 BAR) as it will make priming difficult
- 3.Lubricator** : Pump needs constant Lubrication & a Lubricator unit must be installed in the air line
- 4.Grease Discharge Hose** : It is recommended to use a hose with 1/4" I.D., with a Working Pressure of not less than 5800 PSI (400 BAR). Burst Pressure must be at-least 20,000 PSI (1380 BAR) or more
- 5.Grease Control Valve** : Based on your application, you may use a simple Control Handle or one with built in booster mechanism. Make sure that the Grease control valve has a working pressure of not less than 7500 PSI (517 BAR). Connecting Extensions such as steel extn. Or hose & coupler must have a similar rating. It is recommended to use a swivel to connect the grease hose to the grease control valve. Swivel reduces twisting of the hose in use
- 6.Thread Sealant** : For applying on all threaded connections

## INSTALLATION

- 1.Slide the drum cover over the Suction Tube & lightly tighten the drum cover with the Suction tube
- 2.Remove lid from the grease drum / pail
- 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.Lift the pump assembly & slide the suction tube through the center 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, making sure that it sits firmly on top of the grease drum
- 5.Tighten the Thumb Screws on the drum cover to secure the drum cover with the rim of the drum. Also tighten the drum cover with the pump suction tube
- 6.Connect one end of the High Pressure Grease Hose to the pump outlet. Use a thread sealant to ensure leak-proof connection
- 7.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
- 8.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
- 9.Set the Regulator to 6 BAR (85 PSI) or any required inlet pressure , but never more than 150 PSI (10 BAR) or less than 30 PSI ( 2 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
- 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

Sr. Nr	PROBLEM	CAUSES	REMEDY
1.	Air motor operates, but does not dispense any grease	1.Grease is too thick / too cold 2.Grease drum is damaged causing the follower plate to get stuck 3.Air pockets in grease  4.Inlet Pressure is too Less	1. Use NLGI No.2/ thinner grease. Store grease in a warm place 2. Replace drum. Follower plate must be able to travel all the way down freely 3. Shake the grease drum & manually force down the follower plate to remove air pockets 4. Inlet Air Pressure must at least be 60 PSI (4 BAR).Increase inlet pressure
2	Air Motor cycles intermittently with the trigger not pressed	Leakage in the assembly	Check all the connections to ensure they are air tight. Use thread sealant.



### 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