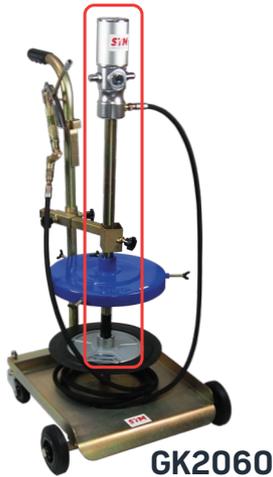


50:1 Grease Pump



GK2060



Read the following precautions and instructions before you begin assembly or using. Failure to comply with these instructions could result in personal injury or property damage. Keep these instructions in a convenient location for future reference.

⚠ Important Note: The guarantee will be void if the pump has been altered in any way

Grease pumps are designed for transferring grease from drum to where it would be used.

- Compressed air operated reciprocating pumps are designed for high pressure greasing.
- be applicable to the manipulation of all types of grease (up to NLGI-2 consistency) from its original drums.
- The pumps can be supplied as separate components or as a complete system with all the elements - necessary for its installation.
- The pumps can be assembled on mobile units as well as on fixed positions, connected to steel pipes.

This manual is applicable to the following pump only, please confirm your pump is included.

STORAGE AND MAINTENANCE

Handling and storage of the new pump do not require any special procedures. The dust in compressed air can slow down and even block the motor cylinder. The following steps may to prevent this from happening:

1. Let in 50 gram of Vaseline oil or other lubricator from the air inlet hole weekly operate the pump for several minutes after having let in into the pump.
2. Turn on the pump for several minutes until moving parts are fully lubricated.
3. You may repeat the above operation if necessary.
4. The above steps should be carried out on a weekly basis.

For the pumps that are attached with compressed air treatment equipment, please clear the water retained in the reservoir of the filter-purger frequently.

For the pumps that are attached with a lubricator, please pay close attention to the lubricator's oil level and refill with SAE 20, SAE 30 or antifreeze oil for extreme conditions when necessary.



NOTE

The user should perform only routine maintenance operations (such as filters, silencers, cleaning...) in order not to damage it or compromise its safety. Contact our sales office or service centers when the pump needs further maintenance.

HOW TO USE

Pump installation

1. When the pump is applied to a high viscosity grease, or used in low temperature, a grease follower plate is recommended to avoid air pockets and to get the most out of your grease. The follower plate, which is pulled towards the bottom of the drum by suction pressure produced by the air operated pump, compress the grease, preventing the formation of air pockets which may cause a blockage in delivery. And the follower plate will always keep the grease clean to preserve its characteristics and also enable the grease to be collected from the bottom of the drum to avoid waste.

2. Loosen the bung adaptor or wall bracket adaptor star nut. Slide the bung adaptor off of the suction tube

3. Carefully place the pump through the bung adaptor and the follower plate. Then tighten the star nut firmly in order to attach the pump. Connection of the air inlet line

Air inlet connection is 1/4" (or quick coupling) in all versions. Compressed air connection (to be supplied by the customer) should be done using suitable tubes. A compressed air treatment unit (filter and regulator) is recommended to be attached to the pump. In order to improve the efficiency of the pump, the installation of a lubricator is also recommended

Compression ratio	50:1
Air inlet connection	1/4" Quick plug
Oil outlet connection	1/4" MBPS
Working pressure	8 bar
Maximum flow pressure	400 bar
Air consumption	120L/min
Relative capacity	800g/min
Suction tube length	30mm

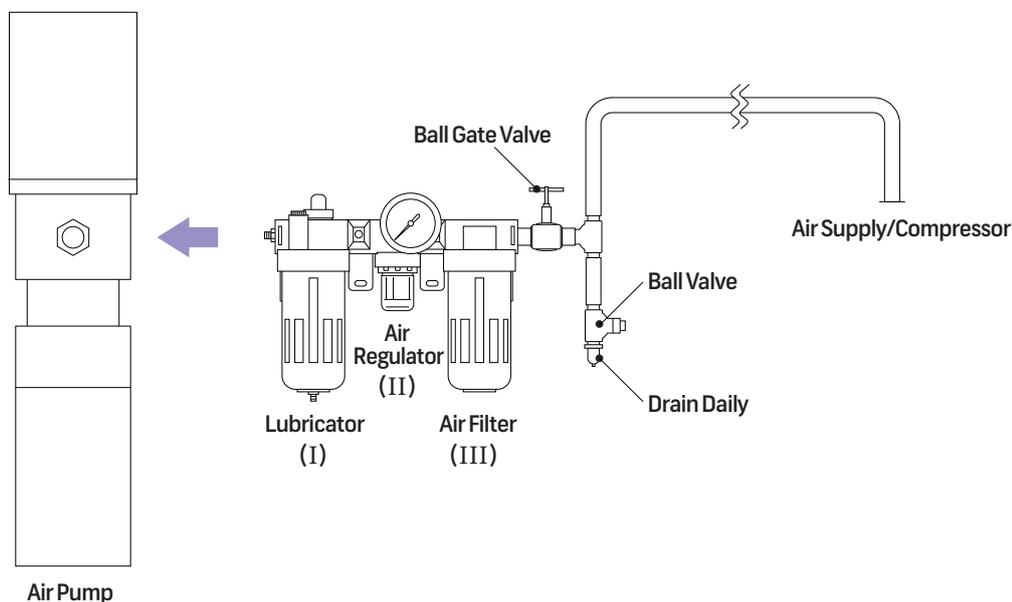


NOTE

1. A cut-off cock is needed, in order to enable the operator to stop the pump at any given moment by cutting the air supply off between the pump and the compressed air line.

2. The pump's air entry pressure must be limited within **8 bar**. If necessary, a pressure Regulator should be installed.

3. **In case you mount air treatment unit on a separate basis, the sequence should be as indicated in the following figure: The lubricator (I) must be placed as close as possible to the air inlet, followed by the pressure regulator (II) and finally, the filter (III). In the case of pumps not installed on wall support it is very important to equip the pump's air inlet with an adaptor for quick coupling and the air inlet hose with a quick connector**



GREASE DISCHARGE CONNECTION

The Grease discharge outlet is a 1/4" Gthread. Connect the outlet to the high pressure hose (according to DIN-SAE norms) through the corresponding adaptor and terminal.

Check that the gun or corresponding valve is closed.

Slowly open the pump's compressed air inlet valve. The pump will start to function, filling the feed circuit with grease. Maintain pressure on the gun until the grease starts coming out. The pump is now ready for its usual function.

PUMP OPERATION

If the pump has already been primed and the compressed air feed is connected to the appropriate work pressure level (5–8 bar) the pump will start automatically when the nozzle or gun situated at the end of the grease delivery circuit is opened. To stop the pump, simply close the nozzle or disconnect the air inlet line.

GENERAL SAFETY REGULATIONS

When the pump is connected to the compressed air supply:

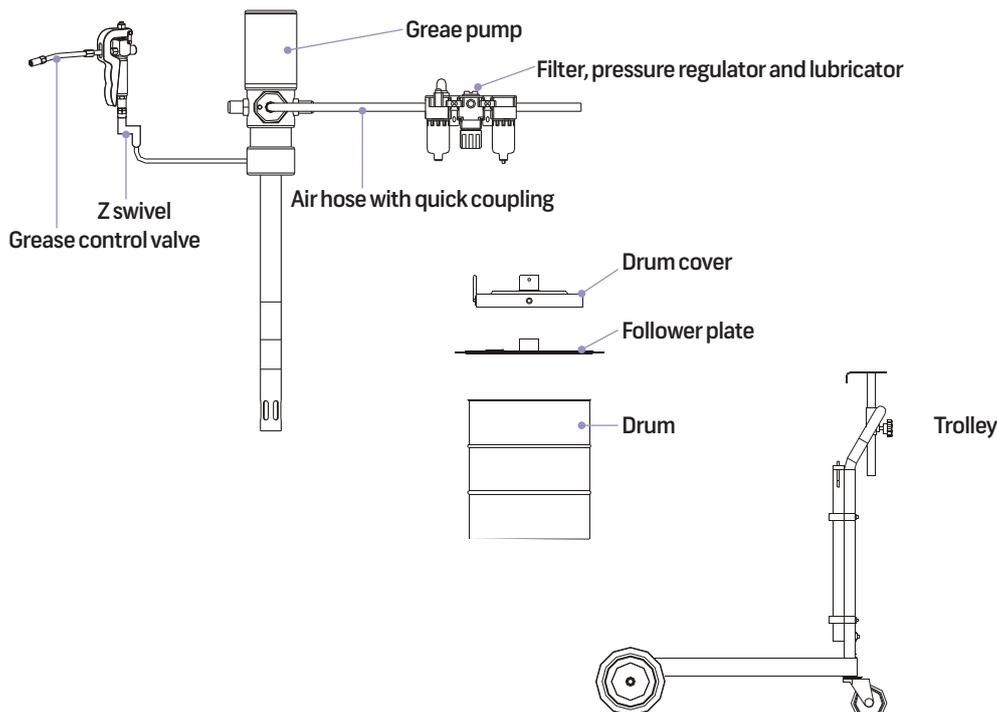
1. The compressed air must be filtered to avoid dust into the pump inside
 2. The max compressed air pressure must not exceed 0.8Mpa
 3. To deliver grease, press the knob on the delivery gun; delivery stops when the knob is released but the whole system remains under pressure.
 4. position the gun so that the circuit can't open accidentally. Otherwise grease could leak onto the ground.
 5. Never point the gun at people
 6. Press the gun knob only after you are sure that the gun is in the right place so that the oil doesn't leak onto the ground.
 7. Always cut off the air supply after use so that oil can't leak out in case one of the pump's components should break
 8. Use only original spare parts in case the pump has to be repaired or its components have to be replaced
 9. Ensure the tightness of all joints and screwed unions.
 10. When no load, cut off compressed air to stop the pump.
 11. Do not use the pump near open flames. Do not stroke during this operation.
 12. Wear oil-proof gloves
 13. The pumps can be used only to deliver grease. Do not use the pump for any other substance.
- Please contact us if you have any special requests.

WARNING!

Cut off the compressed air to stop the pump when the drum is no load!

Disconnect the air supply before making any adjustments, changing accessories or storing the tool!

HOW TO CONNECT THE PUMP WITH THE OTHER ACCESSORIES



MALFUNCTION CAUSES OF EQUIPMENT AND SOLUTIONS

Malfunction description	Malfunction Causes	Solutions
Stop the pump (omit the normal stop) pump in pressure equilibrium condition	Malfunction of reverse machine	Check the reverse machine if it has been locked, modulated or replaced
Grease can not be inhaled	1. Loading board loosed	Install the loading board and screw up the screw cap
	2. Impurity at grease inlet slot	Check and remove it
	3. Viscidity of grease is high or over viscid	Change the grease seasonal using the 0 # and 1# lithium grease in winter. 1# and 2# lithium grease in spring and autumn, and using 2# and 3# lithium grease in summer
	4. Impurities in valve	Check and remove it
	5. Insufficient grease in storage tank	Supply the grease
Air leak	1. Abrasion in touching area of sliding block and air-supply valve seating	Uninstall and rubbing them to reach the requirement of sealing
	2. Replacement of sliding blocks and screws on blocking board loosed	Disassemble and modulate them, and tighten the screws
Insufficient grease outlet pressure	1. Parts of the outlet pipeline blocked and grease transferring obstructed	Check the blocking area Clean and dredge it
	2. Grease way in grease injection gun partly obstructed	Disassemble the grease injection gun. Clean and dredge the blocked parts
	3. Two single direction valves in plunge piston pole have impurity	Disassemble the plunge piston pole and clean, dredge it
	4. Between the check valve and grease-inlet valve seating has impurity	Disassemble the grease - inlet valve seating and clean, dredge it
Grease is leaked while exhausting air	U type seal ring has grease leaked	Change the new U type seal ring
The rotating part of grease injection gun has grease leaking	Butyl rubber seal ring has grease leaking	Change new seal parts