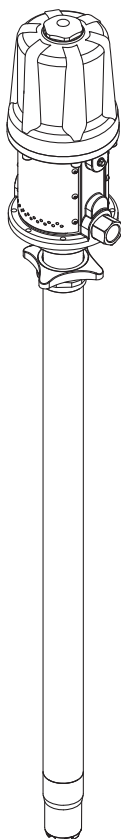




Heavy Duty Oil Pump Instruction Manual



WARNING:

Read carefully and understand all **INSTRUCTIONS** before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury. Save these instructions in a safe place and on hand so that they can be read when required. Keep these instructions to assist in future servicing.



GENERAL SAFETY REGULATIONS



WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors that cannot be built into this product, but must be supplied by the operator.

1. Keep the work area clean and dry. Damp or wet work areas can result in injury.
2. Keep children away from work area. Do not allow children to handle this product.
3. Use the right tool for the job. Do not attempt to force small equipment to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. It will do the job better and more safely at the capacity for which it was intended. Do not modify this equipment, and do not use this equipment for a purpose for which it was not intended.
4. Check for damaged parts. Before using this product, carefully check that it will operate properly and perform its intended function. Check for damaged parts and any other conditions that may affect the operation of this product. Replace damaged or worn parts immediately.
5. Do not overreach. Keep proper footing and balance at all times to prevent tripping, falling, back injury, etc.
6. DO NOT use the equipment when tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating this equipment may result in serious personal injury.



WARNING SYMBOL: This manual contains important warnings and information. Read and keep for reference.



CAUTION SYMBOL: This symbol alerts you to the possibility of serious injury or death if you do not follow the instructions.



CAUTION: This symbol alerts you to the possibility of damage to or destruction of equipment if you do not follow the instructions.

SUMMARIZE

Mainly propose

These pumps mainly provide power during oil transportation. Any other use maybe cause un-safety problems and parts damage, fire explosion, and oil spark even serious fluid injection.

TECHNICAL DETAILS

SKU#	GUL011	GUL012
Ref No.	LP121.12	LP122.11
Drum Application	Pail	
Pressure Ratio	3:1	5:1
Air Inlet Pressure	3-12bar/43-175psi	3-12bar/43-175psi
Max. Fluid Pressure	36bar/520psi	60bar/870psi
Air Motor Effective Diameter	76mm/3"	
Air Consumption (Per Minute)	215L @8bar/ 7.6CFM @115psi	245L @8bar/ 8.6CFM @115psi
Max.Free Flow Rate (Per Minute)	45L/11.9gallon	40L/10.6gallon
Suction Tube Diameter	52mm/2"	
Oil Outlet Connection	3/4"F	
Accessory	3/4"M - 1/2"F reducer	
Air Inlet	1/4"quick plug / 1/4"NPT	1/4"quick plug / 1/4"NPT
Suction Tube Length	940mm/37"	940mm/37"

SAFETY INSTRUCTIONS

 **WARNING:** No complying with below requests will result in severely harm to your body even death.

Oil pump misuse hazard: Oil pump misuse can cause the to rupture, malfunction

- Read all instruction manuals, tags, and labels before operating the equipment.
- Use the equipment only for its intended purpose. If you are not sure, call your distributor.
- Do not alter or modify this equipment. Use only genuine parts and accessories.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- Do not exceed the maximum working pressure of the lowest rated component in your system.
- Use fluids and solvents which are compatible with the equipment wetted parts. Refer to the Technical Data section of all equipment manuals. Read the fluid and solvent manufacturer's warnings.
- Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents, or fluids containing such solvents in pressurized aluminum equipment. Such use could result in a chemical reaction, with the possibility of explosion.
- Handle hoses carefully. Do not pull on hoses to move equipment.
- Route hoses away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not lift pressurized equipment.
- Wear adiabatic glove when operate pump.
- Do not move or lift pump during use.
- Comply with all applicable local, state, and national fire, electrical, and safety regulations.

SKIN INJECTION HAZARD

Fluid from the dispensing valve, leaks, or ruptured components can inject fluid into your body and cause extremely serious injury, including the need for amputation. Fluid splashed in the eyes or on the skin can also cause serious injury. If a fluid injection injury occurs, GET IMMEDIATE SURGICAL TREATMENT. Do not treat as a simple cut.

- Do not point the dispensing valve at anyone or at any part of the body.
- Do not put your hand or fingers over the end of the dispensing valve.
- Do not stop or deflect leaks with your hand, body, glove or rag.
- Use only extensions and no-drip tips which are designed for use with your dispensing valve.
- Do not use a low pressure flexible nozzle with this equipment.
- Follow the Pressure Relief Procedure if the dispensing valve clogs before you clean, check or service the equipment.
- Tighten all fluid connections before operating the equipment.
- Check the hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.
- Do not repair high pressure couplings; you must replace the entire hose.

MOVING PARTS HAZARD

Moving parts can pinch or amputate your fingers.

- Do not operate the pump with the air motor plates removed.
- Keep clear of all moving parts when starting or operating the pump.
- Before servicing the equipment, follow the Pressure Relief Procedure to prevent the equipment from starting unexpectedly.

FIRE AND EXPLOSION HAZARD

Improper grounding, poor ventilation, open flames or sparks can cause a hazardous condition and result in a fire or explosion and serious injury.

- Ground the equipment and the object being lubricated.
- If there is any static sparking or you feel an electric shock while using this equipment, stop dispensing immediately. Do not use the equipment until you identify and correct the problem.
- Provide fresh air ventilation to avoid the buildup of flammable fumes from solvents or the fluid dispensed
- Keep the dispensing area free of debris, including solvent, rags, and gasoline.
- Do not smoke in the dispensing area.

GROUNDING AND INSTALLATION

Grounding



WARNING: Before use the pump, check grounding of the whole system to prevent fire and explosion

To reduce the risk of static sparking, each device should ground effectively.

Pump:

Use a ground wire and clamp as the **Fig.2**. Get rid of the grounding screw, put the end of the grounding wire into the grounding hole. Lock the bolt to the pump safety.

Air and Fluid hoses:

Grounding effectively.

Air compressor:

Follow manufacturer's recommendations.

Oil control valve:

Connect the pump with proper grounding wire, always hold a metal part of the valve firmly to the side of a grounded metal pail, then trigger the valve.

Barrel:

Use local applicable trolley. If it is metal barrel, put on the device which is electric, can not put on insulative device surface, such as paper or carton board which without grounding.

Other parts:

Operated with local regulation for grounding.

Fluid supply container:

Follow the local code.

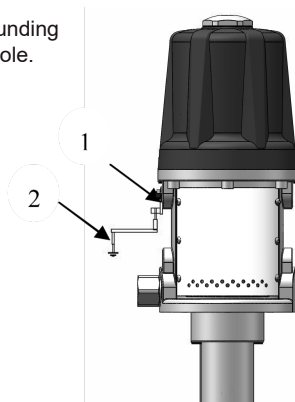


Fig.2: Grounding guide

INSTALLATION

Standard installation

- 1: cut-off valve
- 2: Filter
- 3: Regulator
- 4: Lubricator
- 5: Control valve
- 6: Locking adapter
- 7: Hose reel

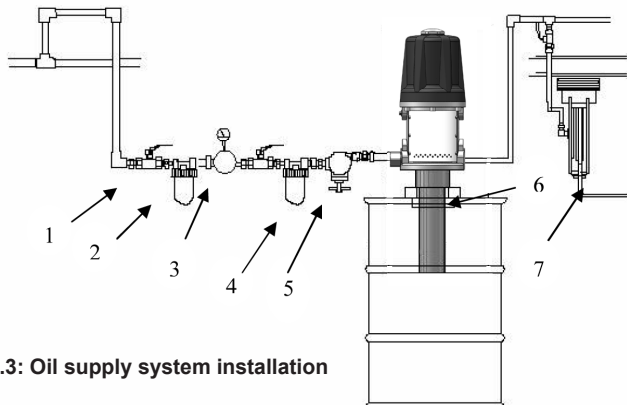


Fig.3: Oil supply system installation

The above installation is not the integrated oil supply system, just contact the manufacture or distributor if you need. Installation for air circle.

Note: Do not hang any device at the air inlet, as there maybe dropping and damage.

Process

- Put the pump into lock adapter (Fig .3 Parts 6), Install to the trolley.
- Install cut-off valve (Fig3. Part1).
- Install filter (Fig 3. Part 2).
- Install regulator which control the speed and adjust the air pressure (Fig3. Part3).
- Install lubricator which with self-lubricate (Fig3. Part 4).
- Install control valve which control flux, When the speed is too fast, pump will be self-close automatic to avoid pump be damaged (Fig.3 Parts5).
- Connect oil output.

OPERATION

Pressure Relief

Injury for skin: Before pressure relief by manual, Pump is under pressure. To reduce the risk of serious injury from pressurized fluid, accidental spray from the valve, or splashing fluid, follow this procedure whenever you

- Are instructed to relieve pressure
- Stop dispensing
- Check, clean, or service any system equipment
- Install or clean dispensing devices

Pressure Relief procedure

- Turn off the cut-off valve, shut off air
- Put the pump to the waste equipments, switch oil valve ,relief pressure
- Turn the air supply and oil fluid.
- Turn off the oil valve.

When occurs :

- Problems on control valve, flexible hose, rigid tube or manual tip, auto tip.
- Pressure not relieve thoroughly according to above relief procedure.
- Pressure relieved very slowly until relieved thoroughly. Please clear obstruction of oil system.

Note: After initialize work, open the oil valve, pump start to work. Close the oil valve, pump stop working.



WARNING: Each device with different max working pressure. To reduce the risk of exceed pressure. Make sure the max work pressure for each device. Rated pressure in the system can not exceed the max pressure of any device. Or there will be burst, explosion, malfunction, serious damage.

Remind: Pump can not operate with empty load. Or the speed will be very fast which will self-damage.

If acceleration is too fast or running very slow, Should stop operation and check that if there is enough oil in the barrel. If there is insufficient oil, change the trolley and initialize the whole system.

Startup

- If there is several pump in the whole system, please use control valve to dispatch the air.
- Open the main control valve.
- Open the oil valve which with effective grounding with the trolley. Keep the connecting of the metal for both oil valve and trolley. Open the cut-off valve, pump start to work. When the pump is stable. Close the oil valve.
- If there are several pumps in the whole system, startup for each pump step by step with above instruction.
- To get perfect result, set up the min air pressure for each device.
- Pump can not operate under empty load.
- Relief pressure before close the pump.

TROUBLE SHOOTING



WARNING: To reduce the risk of serious injury whenever you are instructed to relieve pressure. Do not remove silencer, or it may cause finger be injury.

Before check and maintain, pay more attention of the relieve of pressure.

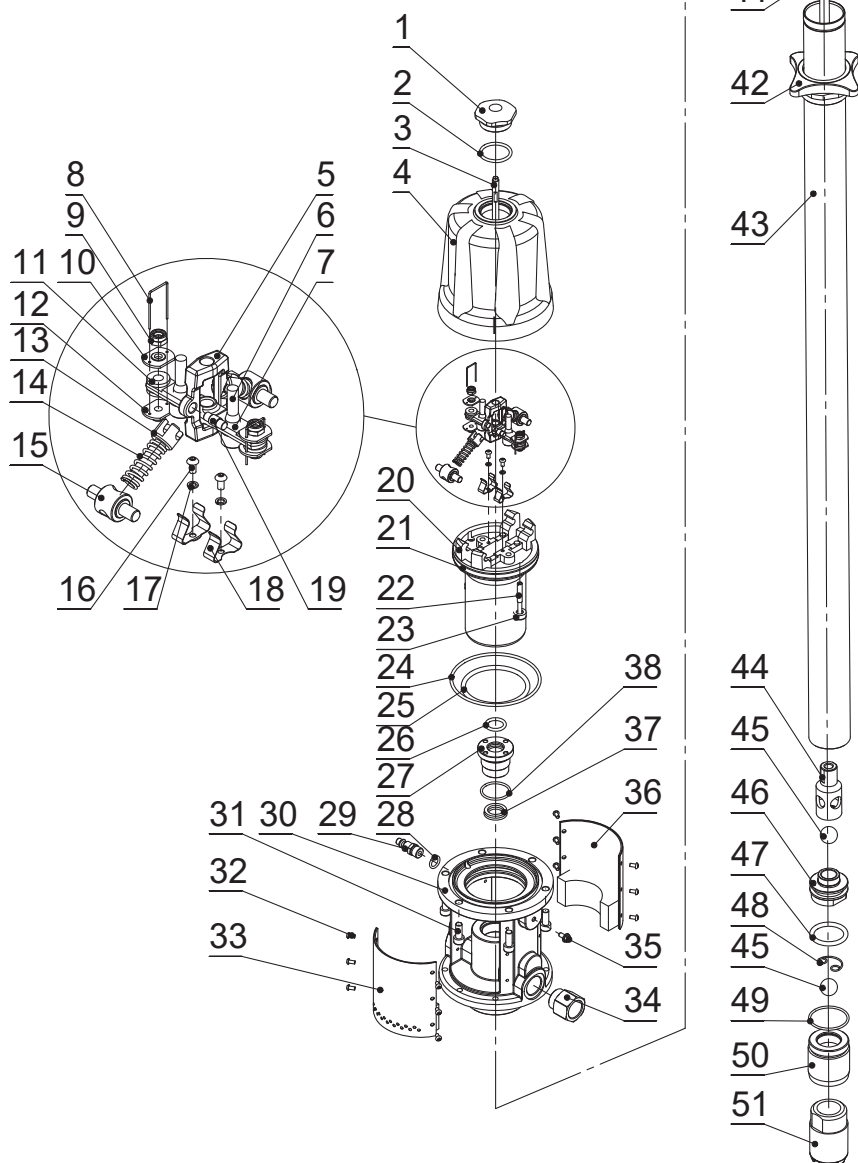
Ordinary problems, reason and solution

Problem	Cause	Solution
Pump fails to operate	Inadequate air supply pressure or restricted air lines	Increase air supply; clear
	Closed or clogged dispensing valve	Open; clear
	Clogged fluid lines, hoses, valves, etc	Clear
	Damaged air motor	Service air motor
	Exhausted fluid supply	Refill and re-prime or flush
Continuous air exhaust	Worn or damaged air motor gas-kit, packing, seal, etc.	Service air motor
Erratic pump operation	Exhausted fluid supply	Refill and re-prime or flush
	Held open or worn intake valve or piston packing	Clear; service
	Hose damaged	Change hose
Pump operates, but output low on both strokes	Piston damaged	Change piston
	Seal O-ring damaged	Change O-ring
	Hose, valve or other device block	Relieve pressure
Leakage from silencer	O-ring damaged	Change O-ring

LIMITED WARRANTY

Twelve (12) months for workmanship of the product, except for wearing parts. Warranty period starts from the product purchase date. Warranty covers material quality and workmanship only. Warranty does not cover product for issues caused by improper usage or any operation not in accordance with the specifications of this manual. Any modification or tampering with the product in any way voids the warranty.

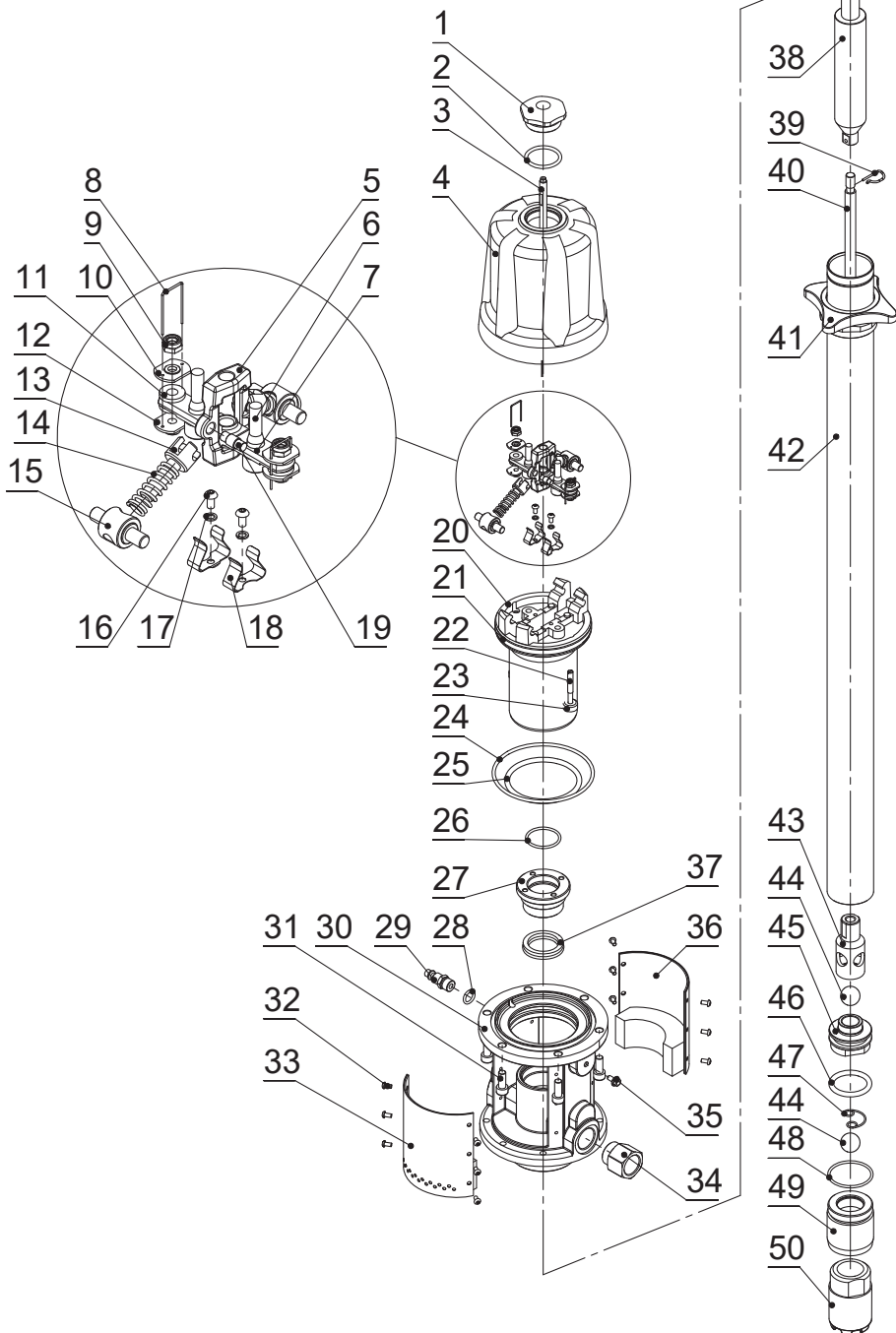
EXPLODED AND PARTS LIST FOR GUL011



Part No.	Description	QTY	Part No.	Description	QTY
1	Cover Plate	1	27	Fixed Block	1
2*	O-ring	1	28*	O-ring	1
3	Rod	1	29	Quick Connector	1
4	Pump Body	1	30	Pump Body	1
5	Bracket	1	31	Screw	6
6*	Sealing	2	32	Screw	12
7	Rod	1	33	Silencer	1
8*	Steel Wire	2	34	Oil inlet	1
9	Lock nut	2	35	Hex Flange Bolt	1
10	Nut	2	36	Silencer Component	1
11*	Shock Pad	2	37*	Lip Seal	1
12	Nut	2	38*	O-ring	1
13	Shaft	2	39	Piston rod	1
14*	Compression Spring	2	40	Pin	1
15	Rod	2	41	Shaft	1
16	Screw	2	42	Locking Sleeve,	1
17	Washer	2	43	Tube fitting	1
18*	Gasket	2	44	Tube fitting	1
19	Pin	2	45	Rolling Bearing	2
20	Piston	1	46	Piston	1
21*	O-ring	1	47*	O-ring	1
22	Rod	2	48*	Clevis	1
23*	Sealing	2	49*	O-ring	1
24*	O-ring	1	50	Fixed seat	1
25*	O-ring	1	51*	Filter assembly	1
26*	O-ring	1			

Note: The Part No. with “*” are the wearing parts.

EXPLODED AND PARTS LIST FOR GUL012

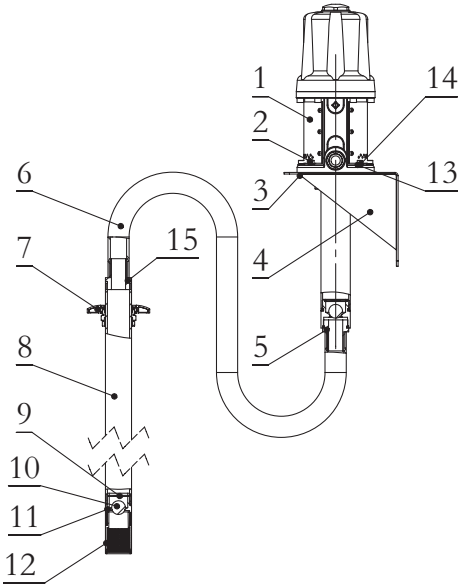


Part No.	Description	QTY	Part No.	Description	QTY
1	Cover Plate	1	26*	O-ring	1
2*	O-ring	1	27	Fixed Block	1
3	Rod	1	28*	O-ring	1
4	Pump Body	1	29	Quick Connector	1
5	Bracket	1	30	Pump Body	1
6*	Sealing	2	31	Screw	6
7	Rod	1	32	Screw	12
8	Steel Wire	2	33	Silencer	1
9	Lock nut	2	34	Oil inlet	1
10	Nut	2	35	Hex Flange Bolt	1
11*	Shock Pad	2	36	Silencer Component	1
12	Nut	2	37*	Lip Seal	1
13	Shaft	2	38	Piston rod	1
14*	Compression Spring	2	39	Pin	1
15	Rod	2	40	Shaft	1
16	Screw	2	41	Locking Sleeve	1
17	Washer	2	42	Tube fitting	1
18*	Gasket	2	43	Tube fitting	1
19	Pin	2	44	Rolling Bearing	2
20	Piston	1	45	Piston	1
21*	O-ring	1	46*	O-ring	1
22	Rod	2	47*	Clevis	1
23*	Sealing	2	48*	O-ring	1
24*	O-ring	1	49	Fixed seat	1
25*	O-ring	1	50*	Fliter assembly	1

Note: The Part No. with “*” are the wearing parts.

WALL INSTALLED Part List

Part No.	Description	Q'ty
1	Oil Pump	1
2	Bolt	6
3	Nut	6
4	Wall bracket	1
5	Pump adapter	1
6	Flexible suction hose	1
7	Bung adapter	1
8	Rigid suction tube	1
9	Spring circlip	1
10	Ball	1
11	Valve seat	1
12	Filter	1
13	Washer	6
14	Washer	6
15	Suction hose adapter	1



Proceed As Follows

1. Secure the bracket to the wall using the dowels at about 1200mm height appropriate for the tank's dimensions. Make sure that the wall is soild and thick enough for the dowels. Do not interfere with hydraulic tubes or electric lines.
2. Secure the pump to the bracket 4.
3. Connect the flexible suction tubes 6 to the pump using the clamp provided.
4. Cnnect the rigid suction 8 to the end of the flexible suction tube 6 using the elastic clamp provided.
5. Put the bung adapter 7 into the drum hole.
6. Put the rigid suction tube 8 into the pump and secure it in place.



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