

Oil Transfer Pump

312009 rev.A

For pumping non-flammable fluids including motor oils, hydraulic fluid, and antifreeze. Do not use to pump water.

Model 260549, 3.0 gpm (11 lpm), 115 VAC

150 psi (1.03 MPa, 10.3 bar) Maximum Working Pressure



Important Safety Instructions

Read all warnings and instructions in this manual. Save these instructions.

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Warnings

The following general warnings are for the setup, use, grounding, maintenance, and repair of this equipment. Additional, more specific warnings may be found throughout the body of this manual where applicable. *Symbols appearing in the body of the manual refer to these general warnings. When these symbols appear throughout the manual, refer back to these pages for a description of the specific hazard.*

 WARNING	
	FIRE AND EXPLOSION HAZARD When flammable fluids are present in the work area, such as gasoline and windshield wiper fluid, be aware that flammable fumes can ignite or explode. To help prevent fire and explosion: • Use equipment only in well ventilated area. • Eliminate all ignition sources, such as cigarettes and portable electric lamps. • Keep work area free of debris, including rags and spilled or open containers of solvent and gasoline. • Do not plug or unplug power cords or turn lights on or off when flammable fumes are present. • Ground all equipment in the work area. • Use only grounded hoses. • If there is static sparking or you feel a shock, stop operation immediately. Do not use equipment until you identify and correct the problem. • Keep a fire extinguisher in the work area.
	ELECTRIC SHOCK HAZARD Improper grounding, setup, or usage of the system can cause electric shock. • Turn off and disconnect power at main switch before disconnecting any cables and before servicing equipment. • Connect only to grounded power source. • All electrical wiring must be done by a qualified electrician and comply with all local codes and regulations.
	PERSONAL PROTECTIVE EQUIPMENT You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to: • Protective eyewear • Clothing and respirator as recommended by the fluid and solvent manufacturer • Gloves • Hearing protection

 WARNING	
	PRESSURIZED EQUIPMENT HAZARD Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury. • Follow Pressure Relief Procedure in this manual, when you stop dispensing and before cleaning, checking, or servicing equipment. • Tighten all fluid connections before operating the equipment. • Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.
	EQUIPMENT MISUSE HAZARD Misuse can cause death or serious injury. • Do not operate the unit when fatigued or under the influence of drugs or alcohol. • Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Data in all equipment manuals. • Use fluids and solvents that are compatible with equipment wetted parts. See Technical Data in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS forms from distributor or retailer. • Check equipment daily. Repair or replace worn or damaged parts immediately with authorized replacement parts only. • Do not alter or modify equipment. • Use equipment only for its intended purpose. Call your distributor for information. • Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces. • Do not kink or over bend hoses or use hoses to pull equipment. • Keep children and animals away from work area. • Comply with all applicable safety regulations.
	BURN HAZARD Equipment surfaces and fluid that's heated can become very hot during operation. To avoid severe burns, do not touch hot fluid or equipment. Wait until equipment/fluid has cooled completely.

Installation



These pumps are positive displacement gear pumps. The AC motors are 115 VAC, and use UL and CSA listed TENV motors. The motors use sealed bearings and require minimal maintenance. These pumps are for use with motor oil, hydraulic fluid, antifreeze, gear lubes and other oil-based products. The package includes a bung adapter for mounting on any standard 2 inch barrel or tank bung.

When unpacking check for shipping damage. Report any shipping damage to delivering carrier immediately. See **Parts**, page 6.

Mounting Pump on Barrel or Tank

1. Install bung adapter in 2 in. bung and tighten.
2. Use a 1 in. (25 mm) steel or PVC pipe with 1 in. npt pipe threads on one end as a suction tube.
3. Cut tube to a length 1/2 in. (13 mm) less than the distance from the top of the bung to the bottom of the tank.

4. Apply pipe sealant to threads and install pipe into pump inlet.

 If you are pumping used oil, install suction tube assembly with inlet suction screen to filter large contaminants.

If tank depth is greater than 60 in. (1524 mm), an intake check valve may be required to retain pump prime.

5. Insert the suction tube through the bung adapter into the tank, and lower the pump onto the bung adapter.
6. Tighten swivel nut on pump to the thread on the bung adapter.
7. The pump outlet port is a 3/4 in. npt pipe port. Make sure hose or pipe used on the pump discharge is rated greater than the maximum working pressure rating of the pump
8. Fill pump outlet with fluid to aid initial priming.

Mounting Pump In-line

The pump has a 1 in. npt inlet and a 3/4 in. npt outlet.

 If you are pumping used oil, install a suction screen to filter large contaminants.

Electrical Installation

115VAC

The pump comes pre-wired with a 30 in. (762 mm) power cord with a 3 prong grounded plug. Power to the pump must be 115 VAC, 60Hz, single phase. If an extension cord is used it should be a 3-wire cord with a ground.

To permanently hardwire the pump, remove the conduit box cover and remove the power cord strain relief. The conduit box wiring opening is for a 1/2 in. conduit pipe. The motor is 115 VAC single phase, requiring a 3-wire grounded electrical service.

Operation



Before servicing, turn pump off and open the nozzle to relieve pressure.

CAUTION

Do not operate pump dry. Make sure pump has fluid in it when pump is initially installed. Do not run the pump for more than 2 minutes with the pump discharge blocked.

See **Parts**, page 8 for reference.

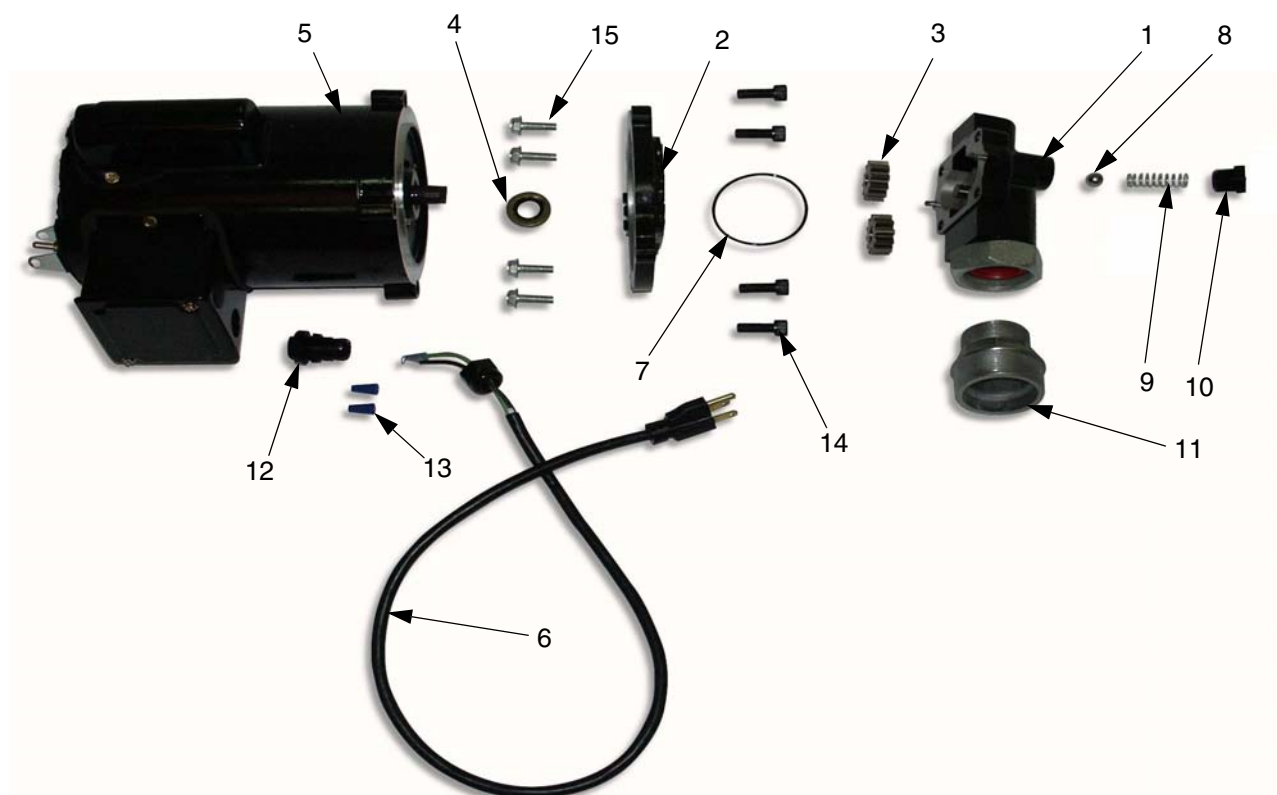
1. To start the pump, turn power switch ON. Power switch is located on the back side of the motor.
2. The pump has an internal bypass valve that will open when the pump discharge pressure exceeds 150 psi (1.03 MPa, 10.3 bar). If flow is blocked the fluid will bypass within the pump.
3. Transfer or dispense fluids by opening the required valves in your system.
4. Immediately after dispensing, turn power switch to off position.

Troubleshooting

Problem	Cause	Solution
Motor runs but pump will not prime.	Dirt under pressure relief valve or seal.	Remove pressure relief valve and inspect, clean, or replace if damaged.
	Worn or damaged gears.	Remove cover and inspect gears. Replace if worn or damaged.
	Fluid level low.	Refill tank.
	Cover seal damaged.	Replace if worn or damaged.
	Inlet strainer clogged.	Remove and clean or replace.
	Air leak in suction tube.	Inspect all joints in suction tube, make sure all joints have sealant applied.
	Air lock in system.	This may occur if filter or meter or automatic shut-off nozzle is used. If this occurs, fill pump and meter with fuel through top of pump.
	Motor does not run at proper speed.	Check electric connections. Check supply voltage for proper voltage level.
Oil leaking in motor mount.	Faulty or damaged motor shaft seal.	Replace shaft seal
	Operating pump extended time with nozzle closed.	Do not exceed 5 minutes of operation with nozzle closed.
	Motor shaft worn.	Replace motor if shaft has groove worn in seal area.

Problem	Cause	Solution
Unit pumps but output flow is low.	Clogged inlet strainer (12).	Clean or replace.
	Air leak in suction tube.	Check to make sure all joints in suction tube are sealed.
	Suction tube too close to tank bottom.	Suction tube must have a 2 in. (51 mm) minimum clearance.
	Tank empty.	Refill tank.
	Tank not vented.	Tank must be vented to atmosphere.
	Worn or damaged gears.	Remove cover and inspect gears. Replace if worn or damaged.
	Damaged motor.	Replace motor.
	Clogged suction tube, hose, or nozzle.	Inspect and clean.
Motor stalls when nozzle is closed.	Bypass relief valve is stuck.	Inspect relief valve, making sure ball is free. Replace if damaged.
	Low supply voltage.	Check supply voltage.
	Gears damaged and binding.	Inspect gears. Gears should turn freely. Replace if damaged.
	Faulty motor.	Replace motor.
Motor overheating.	Gears binding.	Check to make sure gears turn freely on shaft.
	Operating pump extended time with nozzle closed.	Do not exceed 5 minutes of operation with nozzle closed.
	Clogged strainer.	Clean or replace.
	Clogged suction tube, hose, or nozzle.	Inspect and clean if required.
	Operating pump more than 30 minutes continuous duty.	Limit operation to 30 minutes per hour.
Switch will not turn pump on.	Blown fuse or circuit breaker.	Replace fuse or reset breaker.
	Electrical problem.	Check that supply voltage is proper to the pump motor.
	Damaged or defective motor.	Check motor, replace if damaged or defective.

Parts



Ref. No. Description

1	PUMP BODY, with swivel
2	ADAPTER, pump motor
3a	GEAR, pump
4	SEAL, shaft
5	MOTOR, 115 VAC, 3/4 HP
6	POWER CORD
7	O-RING, -144 nitrile (Buna N)
8	BALL, relief valve
9	SPRING, relief valve
10	PLUG, 1/2 npt
11	ADAPTER, bung
12	STRAIN RELIEF
13	NUT, wire
14	SCREW, cap, 5/16-18 x 1 in.
15	SCREW, 3/8-16 x 1 in.
16▲	LABEL, warning (not shown) Part no. 15G901

Qty.

Accessories

Part

Number

Description

260124	Suction pipe, 55 in. PVC with check valve
260217	Inlet check valve
260238	Y strainer
260300	Suction pipe, 34 in. PVC
260306	Inlet suction screen

Kits

Kit

Number

Description

Includes Items

260061	ADAPTER, bung	11
260294	KIT, gear	3a, 4, 7
260295	KIT, pressure relief	8, 9, 10

▲ Replacement Danger and Warning labels, tags, and cards are available at no cost.

Technical Data

Maximum working pressure	150 psi (1.05 MPa, 10.5 bar)
Output flow	3.0 gpm (11 lpm)
Inlet size	1 in. npt
Outlet size	3/4 in. npt
Weight	25 lb (11.25 kg)
Horsepower	3/4 hp
Max current	7.5 amps
Wetted parts	carbon steel with zinc plating, stainless steel, galvanized steel, aluminum, nitrile, rubber

