



SERIES GP8 GEAR PUMP HAND & POWER OPERATED

OPERATION AND
SERVICE GUIDE
O-1125A
NOV. 1995

Refer to Bulletin P-404.

SAFETY PRECAUTIONS BEFORE STARTING PUMP

1. Read operating instructions and instructions supplied with chemical to be used.
2. Refer to **Chemical Resistance Data Chart** for solution compatibility.
3. Note temperature and pressure limitations.
4. **Personnel operating pump should always wear suitable protective clothing; face mask or goggles, apron and gloves.**
5. All piping must be supported and aligned independently of the pump.
6. Always close valves slowly to avoid hydraulic shock.
7. Ensure that all fittings and connections are properly tightened.

BEFORE CHANGING APPLICATION OR PERFORMING MAINTENANCE

1. Wear protective clothing as described in Item 4 above.
2. **Flush pump thoroughly with a neutralizing solution to prevent possible harm to personnel.**
3. Verify compatibility of materials as stated in Item 2 above.

PRE-START-UP

1. Remove pump from packaging and ensure that all loose debris is removed from inside the pump.
2. Use three pre-drilled holes in base to bolt pump onto platform base.
3. Install 2" quick connect couplings in pump inlet and outlet.
4. Install hose to adapter.
5. Pump inlet and outlet are labeled. Since pump operates in either direction of rotation, the labels may be switched for convenience of operation.

HAND OPERATED

1. Attach handle to the pump using slot nearest handle grip and turn vigorously to effect priming. Remember the pump works equally well in both directions and you may be turning the handle in the wrong direction.
2. Once priming has been achieved, relocate handle at the slot furthest from handle grip to ensure ease of operation.

POWER DRILL OPERATED

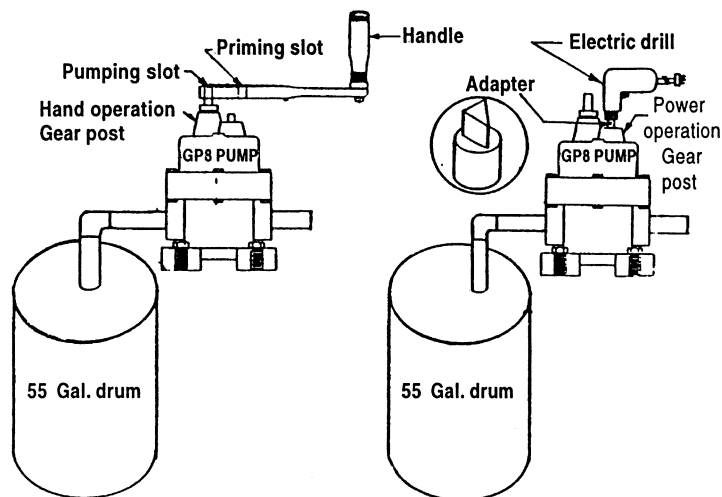
1. Securely lock power drive adapter to drill chuck.
2. Position adapter/drill on power operation gear post.
3. Briefly energize drill to verify correct direction of rotation. If incorrect, reverse direction of motor rotation or switch hoses.
4. **IMPORTANT:** If a mounted motor is to be used connections must be through a flexible drive.

CAUTION:

1. Should the pump ever become jammed, do not force, merely reverse drive on direct drive shaft to clear the extraneous matter causing the problem.
2. Do not bang the pump body with hammer or stone if Item 1 fails to clear blockage. Remove hose couplings and manually clean out pump chamber. Do not pump strong

acids, alkalis or chlorinated solvents unless your order specified these uses.

3. Do not connect a motor drive of greater capacity than 2 H.P. at 1725 RPM.
4. Do not exceed any of the Specifications or Performance Data limitations.
5. Always rinse out pump if used with gritty materials.



GENERAL SAFETY INFORMATION FOR HANDLING FLAMMABLE AND COMBUSTIBLE LIQUIDS

WARNING

When using a hand pump to fill cans, drums or other portable or fixed containers with flammable or combustible liquids such as gasoline, both the container being pumped from and the container being pumped to must be effectively **BONDED** and **GROUNDED** to prevent discharge of sparks of static electricity which could cause explosion.

BONDING is the electrical interconnection between containers (such as a drum and a receiving can). Bonding must be completed before pumping begins. See diagrams.

GROUNDIRG is the electrical connection between a container and a "constant ground". A "constant ground" would be a metal pipe or rod in contact with the earth. An underground tank and piping connected to it would be inherently grounded by nature of the installation. See diagrams.

Both **BONDING** and **GROUNDIRG** of containers of flammable liquids are required under U.S. Gov't. OSHA regulations and National Fire Protection Association Code 77, Static Electricity.

OPTIONAL REQUIRED WHEN PUMPING FLAMMABLES OR COMBUSTIBLES.

	Price Code No.
BONDING CABLE 10 ft. long with spring clamp at each end.	55-0245
GROUNDIRG CABLE 6 ft. long, spring clamp one end, spade lug one end.	55-0246

Consult Application Engineering Dept. for specific liquid handling recommendations.

SERFILCO, LTD.

1777 Shermer Road Northbrook, IL 60062-5360 U.S.A. 800-323-5431
708-559-1777
FAX: 708-559-1995

WESTERN
213-588-0801
FAX: 213-588-6826

(After January, 1996, Northbrook Area Code will be 847.)