

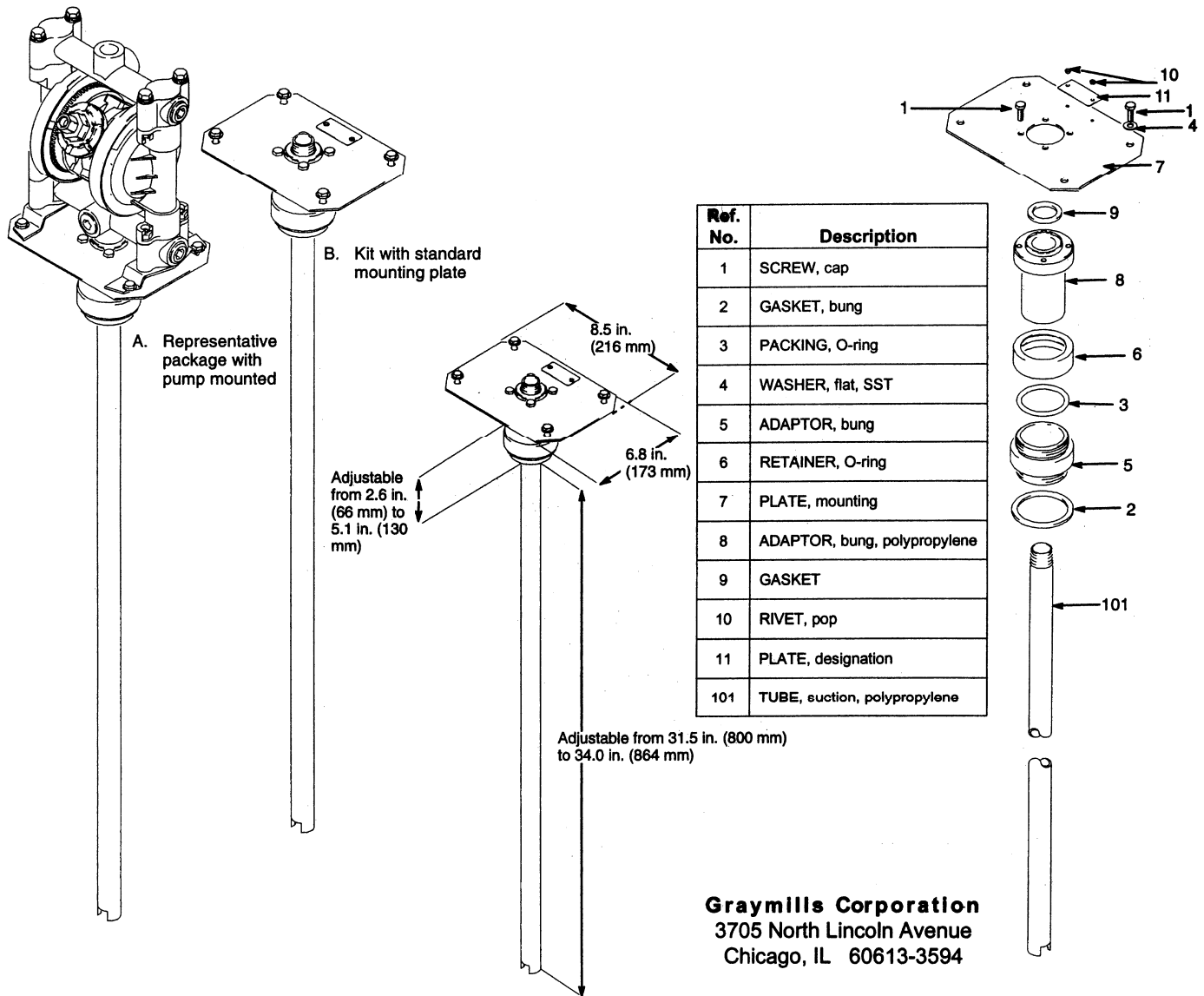
INSTRUCTIONS-PARTS LIST

795-90817

GM 3-02

Air Operated 1/2" Double Diaphragm Drum Mount Pump Kit

784-90715 Drum Pump Kit
DDPLTG-50-Drum Drum Pump Package (Includes Kit 784-90715)
or
DDTG-50-Drum Drum Pump Package (Includes Kit 784-90715)



Graymills Corporation
3705 North Lincoln Avenue
Chicago, IL 60613-3594

Symbols

Warning Symbol



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

Caution Symbol



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

WARNING



INSTRUCTIONS

EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture or malfunction and result in serious injury.

- This equipment is for professional use only.
- 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 that 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.
- Always wear protective eyewear, gloves, clothing, and respirator as recommended by the fluid and solvent manufacturer.
- Wear hearing protection when operating this equipment.
- Comply with all applicable local, state, and national fire, electrical, and safety regulations.
- Route hoses away from traffic areas, sharp edges, moving parts, and hot surfaces. Do not expose hoses to temperatures above 180° F (82° C) or below -40° F (-40° C).
- Do not lift pressurized equipment.
- Comply with all applicable local, state, and national fire, electrical, and safety regulations.
- 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.

WARNING



TOXIC FLUID HAZARD

Hazardous fluids or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, swallowed, or inhaled. When flushing the air motor or pump, keep your face away from the exhaust port.

- Know the specific hazards of the fluid you are using.
- Do not lift a pump under pressure. If dropped, the fluid section may rupture. Always follow the **Pressure Relief Procedure** in the pump manual before lifting the pump.
- Store hazardous fluid in an approved container. Dispose of hazardous fluid according to all local, state, and national guidelines.
- Always wear protective eyewear, gloves, clothing, and respirator as recommended by the fluid and solvent manufacturer.
- Pipe and dispose of exhaust air safely, away from people, animals, and food handling areas. If the diaphragm fails, the fluid is exhausted along with the air. Refer to instruction manual 795-08691.
- **Never** use an acetal pump to pump acids. Take precautions to avoid acid or acid fumes from contacting the pump housing exterior. Stainless steel parts will be damaged by exposure to acid spills and fumes.




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 all equipment and the equipment being dispensed. Refer to instruction manual 795-08691.
- **Never** use a polypropylene pump with non-conductive flammable fluids as specified by your local fire protection code. Refer to **Grounding** in instruction manual 795-08691 for more information. Consult your fluid supplier to determine the conductivity or resistivity of your fluid.
- If you are dispensing non-conductive flammable fluids, you must use the unit with the acetal pump, which is conductive.
- If there is any static sparking or if you feel an electric shock while using this equipment, **stop pumping 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 being dispensed.
- Pipe and dispose of exhaust air safely, away from all sources of ignition. If the diaphragm fails, the fluid is exhausted along with the air. Refer to instruction manual 795-08691.
- Keep the work area free of debris, including solvent, rags, and gasoline.
- Electrically disconnect all equipment in the work area.
- Extinguish all open flames and pilot lights in the dispensing area.
- Do not smoke in the work area.
- Do not turn on or off any light switch in the work area while operating or if fumes are present.
- Do not operate a gasoline engine in the work area.

Installation

Grounding

**WARNING**

**FIRE AND EXPLOSION HAZARD**

This unit must be grounded. Before you operate it, ground the system as explained in this section. Also, read **Fire and Explosion Hazard**. For further Grounding information, read the **Grounding** section in instruction manual 795-08691

Proper grounding is an essential part of maintaining a safe system.

To reduce the risk of static sparking, ground the pump and all other equipment used or located in the pumping area. Check your local electrical code for detailed grounding instructions for your area and type of equipment.

Installation

NOTE: Numbers in parentheses refer to parts as defined on the parts list and the parts drawing on the cover.

1. Remove the knurled bung adaptor (5) and the bung gasket (2) from the bung adaptor base assembly and install it onto the 55-gallon drum.
2. Tighten $\frac{1}{4}$ turn past hand-tight to ensure that the bung gasket (2) engages the drum cover.
3. If an air-tight seal is required, place the white foam gasket (9) in the recess on top of the bung adaptor (8).
4. Loosely attach the pump to the mounting plate with the 4 washers (4) and 4 screws (1) provided.
5. Apply sealant to the threads of the suction tube (101).
6. Insert the threaded end of the suction tube (101) through the bottom of the bung adaptor base assembly and tighten it into the inlet manifold of the pump.
7. Tighten the four screws (1) that attach the pump to the mounting plate (7).
8. Insert the assembly into the drum through the bung adaptor (5) installed on the drum.

WARNING

TIPPING HAZARD

These units should be used only on drums positioned on a flat, level surface. Uneven or slanted surfaces could cause the drum to tip over.

Do not relocate a drum with the unit mounted in the bung hole. When the unit is mounted, the center of gravity is too high for stability when moving the drum.

CAUTION

The bung adaptor (8) has 2.5" of adjustment to accommodate slight variances in drum size. To ensure that the bung adaptor does not come out of the retainer, do not allow the bottom of the larger diameter of the bung adaptor to extend more than 2.5" from the retainer (6).

9. Tighten the retainer (6) $\frac{1}{4}$ turn past hand-tight to ensure the PTFE o-ring (3) seals against the bung adaptor base assembly.
10. Ground the pump and the system. Refer to instruction manual 795-08691.

TOXIC FLUID HAZARD



Read the Toxic Fluid Hazard information on page 3.

11. Follow the installation procedure in instruction manual 795-08691 to complete the installation of the air and fluid lines to and from the pump.
12. Open the second hole in the drum cover to introduce make-up air or inert gas. The bung adaptor and bung adaptor base seal against the drum. Failure to provide make-up air or inert gas could cause the drum to collapse. If necessary, take applicable steps to ensure the make-up air is dry and that dangerous gases do not escape from the drum.
13. To operate the pump, follow the procedures in instruction manual 795-08691