E-Z Gel™ Sprayer
Instructions for Use

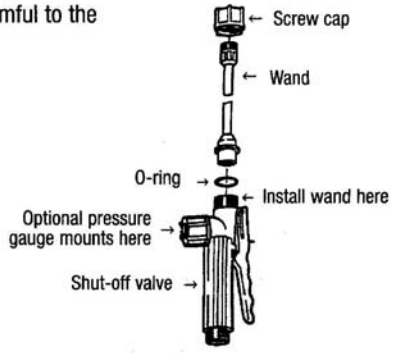
SAFETY PRECAUTIONS:

- **Do not exceed 45 psi pressure.**
- **Do not fill with, use or spray flammable materials.**
- **Do not use gasoline, acid, caustic or potentially injurious chemicals.**
- At the time of manufacture of this sprayer, we are not aware of any approved plant protection chemicals which would adversely affect this sprayer when applied in their usual concentration.
- **Observe the recommendations** and Instructions for Use for E-Z Gel™ Drain Cleaner.
- Prior to removing any part of the sprayer pull the pressure relief valve to release any pressure in the tank.
- **Wear rubber gloves, safety goggles and appropriate protective clothing.**
- **After pumping be sure handle is in the locked down position.**
- Individuals should be trained in the proper use of this sprayer. Where training is not available, individuals should study and follow the procedures detailed in this manual.

WARNING:

Chemicals can be harmful to individuals and the environment if improperly used. In addition, some chemicals are caustic, corrosive, or poisonous and should be avoided. Read warnings and chemical manufacturer's instructions. Solo high density polyethylene sprayers are fitted with Viton® seals which are resistant to a wide variety of agricultural and household chemicals; however, care should be exercised to ensure that sprayer components are clean, functioning properly, and in a good state of repair before and during use. If in doubt about a particular chemical, check with manufacturer. If you suspect or observe indications that the material may be unsafe in a Solo sprayer... STOP! Do Not Use or Apply Chemical. **ALWAYS WEAR RUBBER GLOVES, SAFETY GOGGLES AND APPROPRIATE PROTECTIVE CLOTHING.**

- Read and follow operating instructions.
- Do not fill sprayer over maximum fill mark. Releasing pressure in an overfill condition can cause harmful venting of sprayer contents.
- Relieve pressure only with sprayer upright and while standing on the side of the sprayer opposite the pressure relief valve. Venting of sprayer contents can occur if liquid is over bottom of relief valve.
- CAUTION: To prevent injury from ejected pump assembly and/or solution, never stand with face or body over the top of the tank when pumping, or loosening pump.
- Do not modify sprayer or pressure relief valve.
- Never spray in the direction of humans, animals or property which might be injured or damaged by spray formula.
- Do not use disinfectants, solvents or impregnating agents unless first tested to ensure they are not harmful to the environment and sprayer.
- Do not use liquids with a temperature above 120°F (45°C).
- Remember that a sprayer with liquid is a significant amount of weight (8 lbs. per gallon). Use caution when bending, leaning or walking. Bend only at the knees and support yourself as required to ensure personal safety.
- Do not inflate sprayer without liquid in the tank.
- Do not climb on ladders, trees or other unsteady or potentially unsafe structures.



Assembly Instructions for Wand

1. Ensure that the O-ring is on the non-threaded end of the wand.
2. Insert the non-threaded end of the wand into the O-ring into the open end of the shut-off valve.
3. Tighten the screw cap.

Using the Adjustable Nozzle

To change the spraying pattern, first make sure the retaining nut (2) is screwed tight to the elbow (5). If it is not tight, the nozzle cap (1) and nozzle body (3) will rotate inside the retaining nut and the nozzle will not adjust. For a straight stream pattern, rotate the nozzle cap outward. For a hollow cone pattern, rotate the nozzle cap inward towards the retaining nut.

NOTE: An adjustable nozzle is not shipped with this sprayer. Contact RPC if you prefer to use an adjustable nozzle.

Removing Adjustable Nozzle

Unscrew the nozzle cap (1) from the nozzle body (3). This is best accomplished while the retaining nut (2) is securely fastened to the elbow (5). Next, unscrew the retaining nut (2). Push the nozzle body (3) out of the retaining nut (2). The filter (4) will come out with the body. To re-install the nozzle, reverse the above instructions.

OPERATION:

- Before using sprayer with chemicals, fill sprayer with fresh water to assure that you have it properly assembled; pressurize and then practice spraying. When thoroughly familiar with sprayer operation, follow normal operating procedures.
- Turn pump handle counter clockwise to remove pump.
- Fill tank with premixed formula up to desired level. **(Do not exceed maximum fill mark.)** Observe recommendations of chemical manufacturer.
- Tighten cap and pump assembly for a good seal.
- Pump to a maximum 45 psi or 3 bar pressure. The valve stem on the pressure relief valve will rise up to a red mark indicating 45 psi.
- Start or stop spraying by squeezing or releasing the lever on the shut-off valve (3). The spray pressure can be monitored with an optional pressure gauge.
- Prior to every removal of pump (1), release pressure first by pulling up on the pressure relief valve stem (2).
- **For optimum performance with E-Z Gel™ Drain Cleaner, follow E-Z Gel™ Instructions for Use**

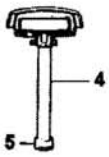
CLEANING:

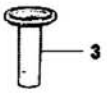
- Carefully clean sprayer after every use.
- Soap and water may be used to clean tank.
- Clean the hose and spray tube by flushing with water.
- Follow the recommendations of the chemical manufacturer for disposing of waste water and chemicals.
- Do not use aggressive or abrasive cleaning agents.

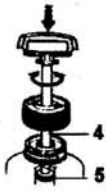
MAINTENANCE:

- Prior to storage, clean and empty sprayer.
- Always store the sprayer in a dry area, protected from freezing, heat and sunlight.
- Lubricate O-ring in pressure relief valve with non-water soluble grease* on a regular basis. Disassembly: Unscrew pressure relief valve from tank and pull the valve body out of the screw cap. Clean and lubricate.
- Should pumping action become difficult, remove the pump from tank, remove pump piston (4) from pump cylinder (3) and grease the O-ring (5) of the pump piston with non-water soluble grease*.
  NOTE: once tank cap is removed, the pump handle "piston" and "cylinder" (pump body) are disassembled simply by pulling apart.
- Use Solo original parts and see your Solo dealer in case of any problems. In the interest of technical progress, we reserve the right to change technical specifications without prior notice.

Pump Maintenance - NOTE: pump pressure sealing is accomplished with an O-ring (5) on the pump piston (4) which moves within the cylinder (3). Periodically this O-ring should be greased with a non-water soluble grease*. If worn, it should be replaced. A small umbrella valve at the bottom of cylinder prevents the formula from entering the cylinder. Keep these parts clean and replace if worn.







Tank Cap - a small amount of non-water soluble grease* on tank cap threads and both sides of the gasket eases tightening and loosening.

Regular Inspection - inspect and replace worn or damaged parts promptly. Pay particular attention to tank cap gasket, pressure relief valve and seal, inflation valve (if fitted), umbrella valve O-rings and seals throughout sprayer. Regular lubrication of O-rings and seals is recommended.

* RPC High Vacuum Grease #A100-0000 will work well.

Note: Always wear rubber gloves, safety goggles and appropriate protective clothing when repairing a sprayer. Once a repair is completed, fill the unit with clean water, pressurize, and check for leaks. If the sprayer leaks, DO NOT USE. Repair leaks and re-check.

SERVICE AND REPAIR SECTION
HANDHELD SPRAYER TROUBLE SHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
Difficulty in moving pump handle	• dirty cylinder wall	• remove piston, clean and replace
	• O-ring on piston swollen (not cleaned properly)	• replace O-ring
Low pressure & resistance during pumping	• No lube on piston/cylinder	• lubricate with heavy grease
	• Damaged O-ring in pressure relief valve	• replace O-ring
	• worm or damaged O-ring in shut-off valve	• replace O-ring
	• tank cap not tight	• tighten cap
Leaks from end of spray wand	• worn or damaged O-ring in shut-off valve	• rebuild shut-off valve
Leaks from inside cylinder	• no lube on piston cylinder	• lubricate piston, O-ring and cylinder
Leaks under cap	• worn or damaged umbrella valve	• replace umbrella valve at bottom of cylinder
Leaks from shut-off valve	• damaged or missing gasket	• replace gasket
Leaks from hose	• screw cap not tight	• tighten tank cap
Pressure relief valve sticks	• worn, damaged or loose fittings, lack of lubrication	• tighten fittings and replace worn parts, disassemble and lubricate O-rings
Air leak - air coming out between the two halves of the pump support	• worn, damaged or loose fittings	• tighten fittings and replace worn parts
	• lack of lubrication or contaminated	• clean and lubricate pressure relief valve relief valve assembly
	• tank cap not tight	• tighten tank cap
	• gasket twisted or lacking lubrication	• straighten gasket and lubricate with grease
	• tank lip damaged	• repair or replace tank