

SOLO 419

Solo 419 2-Liter One-Hand Pressure Sprayer Instruction Manual

Model: 419

INTRODUCTION

Thank you for choosing the Solo 419 2-Liter One-Hand Pressure Sprayer. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your new sprayer. Designed for durability and ease of use, the Solo 419 is ideal for a variety of applications, from gardening and fertilizing to weed control and general cleaning.



The Solo 419 2-Liter One-Hand Pressure Sprayer, featuring its ergonomic grip and compact design.

PRODUCT OVERVIEW AND KEY FEATURES

The Solo 419 Pressure Sprayer is engineered for reliability and user comfort. Its robust construction and thoughtful design make it a versatile tool for various spraying needs.

- **Chemical-Resistant Viton Seals:** Ensures outstanding resistance to harsh chemicals, prolonging the life of the sprayer.
- **Multi-Directional Nozzle:** Allows for spraying from all positions, providing flexibility and precision.
- **Unique Drift Guard:** Offers added control during spot treatment, minimizing overspray.
- **Locking Trigger:** Reduces user fatigue during extended use, enhancing comfort.
- **Pressure Relief Valve:** Prevents excess pressure buildup, ensuring safe operation.
- **9.5-Inch Metal Wand:** Provides extended reach for difficult-to-access areas.
- **Ergonomic Grip:** Designed for comfortable handling during operation.
- **Large Bottle Opening:** Facilitates easier filling and cleaning.

- **Bottle Bottom with Feet:** Provides stability when placed on surfaces.



Detailed diagram highlighting key features such as the new cup-device, enlarged pumping handle, large bottle opening, automatic relief valve, extension wand, ergonomic grip, and chemical-resistant Viton seals.



Close-up view of the ergonomic handle and red locking trigger for continuous spraying.





The enlarged curved pumping handle designed for more comfortable operation.



The large bottle opening ensures easy and mess-free filling of liquids.

SETUP

Unpacking and Assembly

Carefully remove all components from the packaging. Ensure all parts are present before proceeding with assembly. The Solo 419 comes largely pre-assembled, requiring minimal setup.

1. **Inspect Components:** Check for any damage during shipping. Verify that the main sprayer body, pump assembly, wand, and nozzle are intact.
2. **Attach Wand (if detached):** If the 9.5-inch metal wand is separate, securely screw it into the designated port on the sprayer handle. Ensure a tight fit to prevent leaks.
3. **Nozzle Adjustment:** The multi-directional nozzle can be adjusted for various spray patterns. Familiarize yourself with its rotation and how it changes the spray.

Filling the Sprayer

Before filling, ensure the sprayer is on a stable, level surface. Always wear appropriate personal protective equipment (PPE) such as gloves and eye protection when handling chemicals.

1. **Depressurize:** If the sprayer has residual pressure, activate the pressure relief valve to release it.
2. **Unscrew Pump Assembly:** Twist the pump handle counter-clockwise to unscrew and remove the entire pump assembly from the tank.
3. **Prepare Solution:** Mix your desired liquid (fertilizer, herbicide, water, etc.) according to the manufacturer's

instructions in a separate container if necessary, or directly in the sprayer tank if appropriate. The large opening facilitates easy pouring.

4. **Fill Tank:** Carefully pour the prepared solution into the sprayer tank. **Do not fill above the maximum fill line (2 liters)** to allow for adequate air space for pressurization.
5. **Re-attach Pump Assembly:** Carefully insert the pump assembly back into the tank opening. Screw it clockwise until it is securely tightened. Ensure the pump is seated correctly to create an airtight seal.

OPERATING INSTRUCTIONS

Pressurizing the Sprayer

To build pressure within the tank, pump the handle up and down approximately 20-30 times until resistance is felt. The pressure relief valve will activate if over-pressurized.





Pump the handle to build pressure in the tank. The enlarged curved handle provides a comfortable grip.

Spraying

1. **Aim Nozzle:** Direct the nozzle towards the target area.
2. **Activate Trigger:** Squeeze the trigger on the handle to begin spraying. For continuous spraying, push the red locking tab forward while the trigger is depressed. Release the tab to stop.
3. **Adjust Spray Pattern:** Rotate the nozzle tip to change the spray pattern from a fine mist to a straight stream. The multi-directional nozzle allows for spraying from various angles, including the underside of leaves.
4. **Maintain Pressure:** As you spray, the pressure in the tank will decrease. Pump the handle periodically to maintain consistent spray pressure.





- New cup-device for (1) vertically adjustable spraying, (2) drift protection.



- Easily operated trigger with lock for continuous spraying -straight stream to fine mist.



- Ergonomic grip and trigger design.



- Enlarged curved pumping handle for more comfortable operation.



- Large bottle opening for easier filling.



- Chemical resistant Viton® gasket and O-rings.



- Automatic relief valve to prevent over-pumping.



- Extension wand.
(available on Model 419-2L).



- Bottle bottom has feet for stability.



- Read instructions from the chemical manufacturer. For safety, wear proper protective garments or devices.
- Do not use acid, caustic or potentially injurious chemicals. Do not fill or spray flammable materials. Do not use liquids with temperatures above 120°F (45°C).
- Fill no higher than the Max. (2 liter) level. Pumping 30 strokes will create necessary pressure (35psi).
- After each use with chemicals, press trigger to release all remaining pressure from nozzle. Then open pump base and rinse off remaining chemicals inside bottle, nozzle and filter with water. Make sure filter on pick-up tube is clean.
- Store sprayer in a cool, shady place.

All-New Design

A user demonstrating the Solo 419 sprayer in a garden setting, applying liquid to plants.



The sprayer shown with its 9.5-inch metal wand extended, providing additional reach for various applications.



The sprayer with its wand in a more compact position, suitable for closer spraying tasks.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Solo 419 sprayer.

After Each Use

1. **Empty Tank:** Always empty any remaining liquid from the tank. Do not store chemicals in the sprayer.
2. **Rinse Thoroughly:** Fill the tank with clean water and pump to spray through the wand and nozzle. Repeat this process several times until the water sprayed is clear. This flushes out chemical residues.
3. **Clean Exterior:** Wipe down the exterior of the sprayer with a damp cloth.
4. **Depressurize:** Release all pressure from the tank using the pressure relief valve.
5. **Store Properly:** Store the sprayer in a cool, dry, and shaded place, away from direct sunlight and freezing temperatures.

Periodic Maintenance

- **Check Seals and O-Rings:** Periodically inspect the Viton seals and O-rings for wear or damage. Replace them if they appear cracked, brittle, or are causing leaks.
- **Clean Nozzle:** If the spray pattern becomes irregular or clogged, remove the nozzle and clean it with a soft brush and water. Do not use metal objects that could damage the orifice.
- **Lubricate Pump:** Apply a small amount of silicone grease to the pump shaft and O-rings to ensure smooth operation and maintain the seal.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No pressure or low pressure after pumping.	Loose pump assembly. Worn or damaged O-rings/seals. Tank overfilled.	Tighten pump assembly securely. Inspect and replace O-rings/seals if necessary. Empty some liquid; ensure liquid is below max fill line.
Irregular or no spray from nozzle.	Clogged nozzle. Low tank pressure.	Clean nozzle thoroughly. Pump handle to increase pressure.
Liquid leaking from pump or connections.	Loose connections. Damaged seals/O-rings.	Tighten all connections. Inspect and replace seals/O-rings.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact Solo customer support for assistance.

SPECIFICATIONS

Feature	Detail
Brand	SOLO
Model Name	2 Liter One-Hand Pressure Sprayer

Feature	Detail
Item Model Number	419
Tank Volume	2 Liters
Color	Red, White, Black
Material	Metal (for wand), other materials for body
Item Weight	0.01 Ounces (Note: This weight seems unusually low and might be a data error, but it's from the source.)
Product Dimensions	6.25"W x 11.5"H
Style	Ergonomic, Unique
Power Source	Manual
Included Components	Multi-directional nozzle, Drift guard, Locking trigger, Pressure relief valve, 9.5-inch metal wand, Adjustable nozzle
UPC	720343419009

WARRANTY AND SUPPORT

Solo products are known for their superior quality and durability, a reputation built since 1948. While specific warranty details are not provided in this manual, Solo stands behind the quality of its products. For any questions regarding warranty, parts, or technical support, please contact Solo customer service.

For further information and support, please visit the official Solo website or contact their customer service department. Always refer to the product packaging or Solo's official website for the most current warranty information and contact details.

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