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› Stenner Pump 45mp2 - Stenner Peristaltic Pump Fixed Head-Rated at 10 gpd. Rated at 25 psi. Ideal Chlorine Injection Pump. 120 Volts, Model 45MFL2A1S

## Stenner Pump Company 45MFL2A1S

# Stenner Pump 45mp2 User Manual

Model: 45MFL2A1S

## INTRODUCTION

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This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Stenner Pump 45mp2. This fixed head peristaltic pump is designed for precise chemical injection, ideal for applications such as chlorine dosing. Please read this manual thoroughly before installation and use.

## SAFETY INFORMATION

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Always observe the following safety precautions to prevent injury or damage to the equipment:

- Ensure the pump is disconnected from power before performing any maintenance or installation.
- Wear appropriate personal protective equipment (PPE) when handling chemicals.
- Verify that the power supply voltage matches the pump's requirements (120 Volts).
- Do not operate the pump if any components are damaged.
- Keep children and unauthorized personnel away from the pump during operation.

## PACKAGE CONTENTS

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Carefully unpack the box and verify that all items listed below are present and undamaged. If any items are missing or damaged, contact your supplier immediately.



Figure 1: Stenner Pump 45mp2 with all included accessories.

An overhead view of the Stenner Pump 45mp2, a black peristaltic pump with a clear head, along with its accessories. These include a coiled white tubing, black connecting nuts, ferrules, an injection check valve, a weighted suction line strainer, and an additional pump tube.

- Stenner Pump 45mp2 (Model 45MFL2A1S)

- Three (3) 1/4" Connecting Nuts
- Three (3) Ferrules
- One (1) Injection Check Valve (25 psi)
- One (1) 1/4" Weighted Suction Line Strainer
- One (1) 1/4" x 20' White Roll Suction/Discharge Tubing
- One (1) Additional Pump Tube
- One (1) Mounting Bracket

## SETUP AND INSTALLATION

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1. **Mounting the Pump:** Securely attach the pump to a stable, vertical surface using the provided mounting bracket. Ensure the pump is level and accessible for maintenance.
2. **Tubing Connection:**
  - Connect the 1/4" suction tubing to the inlet side of the pump head. Use a connecting nut and ferrule to ensure a tight, leak-free seal.
  - Attach the weighted suction line strainer to the end of the suction tubing. This strainer should be placed in the chemical supply tank.
  - Connect the 1/4" discharge tubing to the outlet side of the pump head, again using a connecting nut and ferrule.
  - Install the injection check valve at the end of the discharge tubing, where the chemical will be injected into the water line or system. This valve prevents backflow.
3. **Electrical Connection:** Ensure the power source is 120 Volts. Plug the pump's power cord into a grounded electrical outlet.
4. **Priming the Pump:** Before initial operation, it may be necessary to prime the pump to ensure proper flow. Refer to the operating instructions for details.

## OPERATING INSTRUCTIONS

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The Stenner Pump 45mp2 is a fixed-speed pump, meaning its output rate is constant at 10 gpd (gallons per day) at 25 psi. Operation is straightforward:

1. **Fill Chemical Tank:** Ensure the chemical supply tank contains the desired solution and the suction line strainer is fully submerged.
2. **Power On:** Plug the pump into the 120V power outlet. The pump will begin operating immediately.
3. **Verify Flow:** Observe the discharge line to confirm that chemical is being injected. It may take a few minutes for the pump to establish full flow, especially after initial setup or if the lines were empty.
4. **Power Off:** To stop the pump, simply unplug it from the power outlet.

*Note:* This model does not have adjustable flow rates. The output is fixed at 10 gpd at 25 psi.

## MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your Stenner pump. Always disconnect power before performing maintenance.

- **Pump Tube Replacement:** The Santoprene pump tube is a wear item and should be replaced periodically, typically every 6-12 months depending on usage and chemical aggressiveness. A spare pump tube is included.

- a. Unplug the pump.
  - b. Remove the pump head cover.
  - c. Carefully remove the old pump tube from the rollers.
  - d. Install the new pump tube, ensuring it is properly seated around the rollers.
  - e. Replace the pump head cover.
- **Tubing Inspection:** Periodically inspect the suction and discharge tubing for cracks, kinks, or blockages. Replace tubing as needed.
  - **Strainer Cleaning:** Clean the weighted suction line strainer regularly to prevent debris from entering the pump.
  - **Check Valve Inspection:** Inspect the injection check valve for proper operation and cleanliness. A faulty check valve can lead to incorrect dosing.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump not running	No power; faulty motor; tripped breaker	Check power connection and outlet; reset breaker; contact support if motor is faulty.
No chemical flow	Empty chemical tank; clogged suction strainer; kinked tubing; worn pump tube; air lock	Refill tank; clean strainer; straighten tubing; replace pump tube; prime the pump.
Inconsistent flow / Pulsing	Air in lines; worn pump tube; faulty check valve	Bleed air from lines; replace pump tube; inspect/replace check valve.
Leaking from pump head	Damaged pump tube; loose connections	Replace pump tube; tighten all connecting nuts and ferrules.

## SPECIFICATIONS

Feature	Detail
Model Number	45MFL2A1S
Flow Rate	Fixed 10 gpd (gallons per day)
Pressure Rating	25 psi (pounds per square inch)
Voltage / Hertz	120 Volts / 60 Hz
Tubing Size (Suction/Discharge)	1/4 inch
Pump Tube Material	Santoprene
Dimensions (Package)	13 x 9 x 8 inches
Weight (Package)	7.15 Pounds

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Stenner Pump Company website or contact your authorized dealer. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: **Stenner Pump Company**

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