

## Seko NPG001HA1000

# Seko NPG001HA1000 Peristaltic Pump User Manual

Model: NPG001HA1000

## 1. INTRODUCTION

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This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of the Seko NPG001HA1000 Peristaltic Pump. Please read this manual thoroughly before attempting to install or operate the pump. Retain this manual for future reference.

The Seko NPG001HA1000 is a peristaltic dosing pump designed for precise and controlled delivery of liquids, suitable for various commercial applications, including water and chemical dosing. It specializes in the design and manufacture of dosing pumps, ensuring reliability and performance.

## 2. SAFETY INFORMATION

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

- **Electrical Safety:** Ensure the pump is connected to a properly grounded power supply. Disconnect power before performing any maintenance or installation.
- **Chemical Handling:** When handling chemicals, always wear appropriate personal protective equipment (PPE) such as gloves and eye protection. Refer to the Material Safety Data Sheets (MSDS) for the chemicals being used.
- **Installation:** Ensure the pump is securely mounted on a stable surface. All tubing connections must be tight to prevent leaks.
- **Operation:** Do not operate the pump if it appears damaged or is not functioning correctly.
- **Environment:** This pump is suitable for use in all commercial premises. Ensure the operating environment is free from excessive moisture or extreme temperatures unless specified otherwise.

## 3. 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.

- Seko NPG001HA1000 Peristaltic Pump unit
- Dosing tubing
- Mounting hardware (screws, nuts, washers)
- Suction filter/weight
- Injection fitting



**Figure 3.1:** Overview of the Seko NPG001HA1000 Peristaltic Pump and its components, including the pump unit, coiled tubing, mounting screws, nuts, washers, and a white suction filter/weight.

## 4. SETUP AND INSTALLATION

Follow these steps for proper installation of your peristaltic pump:

1. **Mounting the Pump:** Select a suitable, stable vertical surface for mounting. Use the provided mounting hardware to securely attach the pump unit. Ensure there is adequate space around the pump for ventilation and access for maintenance.
2. **Tubing Connection (Suction):** Connect one end of the dosing tubing to the suction inlet of the pump. Place the suction filter/weight at the other end of this tubing and immerse it into the chemical or liquid reservoir. Ensure the tubing is not kinked or obstructed.

3. **Tubing Connection (Discharge):** Connect the remaining dosing tubing to the discharge outlet of the pump. Connect the other end of this tubing to the injection point in your system, using the provided injection fitting if necessary. Verify all connections are tight to prevent leaks.
4. **Electrical Connection:** Connect the pump's power cord to a suitable electrical outlet. Ensure the power supply matches the pump's voltage requirements as specified on the product label. The pump operates on a corded electric component.



**Figure 4.1:** Components of the Seko NPG001HA1000 pump, including the main unit, tubing, and various fittings, ready for assembly and installation.

## 5. OPERATION

The Seko NPG001HA1000 is a fixed-rate peristaltic pump designed for continuous or intermittent dosing at a rate of 1.5 liters per hour.

1. **Power On:** Once all connections are secure and the pump is mounted, plug the pump into the power outlet. The pump will typically begin operation immediately or upon activation of an external control signal, depending on the specific model variant.
2. **Priming:** If the tubing is empty, it may take a few moments for the pump to draw liquid and begin dosing.

Ensure the suction line is fully submerged in the liquid.

3. **Monitoring:** Observe the pump's operation to ensure consistent flow and no leaks. The transparent casing allows for visual inspection of the peristaltic rollers and tubing.
4. **Power Off:** To stop the pump, disconnect it from the power supply or use any integrated control switch if available.



**Figure 5.1:** Angled view of the Seko NPG001HA1000 Peristaltic Pump, showing the transparent cover over the pump head and the inlet/outlet connections.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your pump.

- **Tubing Inspection:** Periodically inspect the peristaltic tubing for signs of wear, cracking, or discoloration. The tubing is a consumable part and should be replaced if any degradation is observed to maintain accurate dosing and prevent leaks.
- **Cleaning:** Keep the exterior of the pump clean. If chemicals have spilled on the pump, wipe them off immediately with a damp cloth. Do not use abrasive cleaners or solvents.
- **Connections:** Regularly check all tubing and electrical connections to ensure they remain tight and

secure.

- **Suction Filter:** Inspect and clean the suction filter/weight periodically to prevent blockages, especially when dosing liquids with particulates.

## 7. TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
Pump not operating	No power supply; loose electrical connection	Check power outlet and connections; ensure pump is plugged in.
No liquid flow	Kinked or blocked tubing; empty reservoir; worn tubing; air in line	Check tubing for obstructions; refill reservoir; replace worn tubing; prime the pump.
Inconsistent flow	Air leaks in suction line; worn tubing; suction filter clogged	Check all suction connections; replace tubing; clean suction filter.
Leakage	Loose connections; damaged tubing	Tighten all fittings; replace damaged tubing.

## 8. SPECIFICATIONS

<b>Manufacturer</b>	Seko
<b>Model Number</b>	NPG001HA1000
<b>Flow Rate</b>	1.5 L/hour
<b>Power Source</b>	Corded Electric Component
<b>Package Dimensions</b>	17.1 x 12.4 x 12 cm
<b>Weight</b>	518 g
<b>ASIN</b>	B07FPVYP39

## 9. WARRANTY AND SUPPORT

For warranty information, technical support, or spare parts, please contact your original supplier or the manufacturer, Seko. Keep your purchase receipt and model number (NPG001HA1000) readily available when contacting support.

