

Pulsafeeder LB64SA-PTC1-XXX

Pulsafeeder PULSAtron Series A Plus Metering Pump LB64SA-PTC1-XXX User Manual

Model: LB64SA-PTC1-XXX

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Pulsafeeder PULSAtron Series A Plus Metering Pump, model LB64SA-PTC1-XXX. This positive displacement, diaphragm-type pump is designed for precise chemical metering applications. Please read this manual thoroughly before operating the pump.

2. SAFETY INFORMATION

Always observe safety precautions to prevent injury and equipment damage. This pump handles chemicals; proper personal protective equipment (PPE) and chemical handling procedures are mandatory. Ensure all electrical connections comply with local codes and standards. Disconnect power before performing any maintenance or service.

- **Electrical Safety:** Ensure the pump is properly grounded. Do not operate with damaged cords or connections.
- **Chemical Handling:** Always wear appropriate PPE (gloves, eye protection, protective clothing) when handling chemicals. Refer to Material Safety Data Sheets (MSDS) for all chemicals used.
- **Pressure Safety:** Verify all connections are secure and rated for the system pressure. Do not exceed the pump's maximum operating pressure.
- **Installation:** Installation should be performed by qualified personnel familiar with chemical metering systems and electrical safety.

3. PRODUCT OVERVIEW

The Pulsafeeder PULSAtron Series A Plus Metering Pump is engineered for reliable and precise chemical dosing. Its design incorporates guided check valves for excellent priming and suction characteristics, and a robust timing circuit resistant to environmental interferences.

Key Features:

- Manual Control: Adjustable stroke rate and stroke length during operation.
- Highly Reliable Timing Circuit: Designed for consistent performance.
- Circuit Protection: Safeguards against voltage and current fluctuations.
- Solenoid Protection: Thermal overload with auto-reset feature.
- Water Resistant: Suitable for both outdoor and indoor applications.



Figure 1: Pulsafeeder PULSAtron Series A Plus Metering Pump. This image shows the blue and black pump unit with control knobs on the front panel and the discharge head assembly at the top right.

4. SETUP AND INSTALLATION

Proper installation is critical for pump performance and longevity. Ensure the pump is mounted securely and all connections are leak-free.

4.1 Mounting

- Mount the pump on a rigid, vibration-free surface.
- Ensure adequate clearance for maintenance and ventilation.
- Position the pump as close as possible to the chemical source to minimize suction lift.

4.2 Tubing Connections

- Connect the suction tubing from the chemical tank to the pump's suction valve.
- Connect the discharge tubing from the pump's discharge valve to the injection point.
- Ensure all tubing is securely fastened and free of kinks or sharp bends.
- Install a foot valve with a strainer in the chemical tank and an injection valve at the injection point.

4.3 Electrical Connection

- Connect the pump to a dedicated power supply according to the pump's electrical specifications and local electrical codes.
- Ensure proper grounding.

5. OPERATING INSTRUCTIONS

The PULSAtron Series A Plus pump features dual manual control for precise output adjustment.

5.1 Priming the Pump

1. Ensure the suction line is submerged in the chemical.
2. Open the bleed valve (if present) on the discharge head or loosen the discharge tubing connection slightly.
3. Set the stroke length to maximum (100%) and the stroke rate to a moderate setting.
4. Turn on the pump. Allow it to run until a steady stream of chemical flows from the bleed valve or loosened connection, indicating air has been purged.
5. Close the bleed valve or tighten the discharge tubing connection.

5.2 Adjusting Output

The pump's output volume is controlled by two parameters:

- **Stroke Length:** Adjusts the volume of chemical dispensed per stroke. Typically controlled by a knob on the pump head or front panel.
- **Stroke Rate:** Adjusts the number of strokes per minute. Controlled by a knob on the front panel.

Adjust both controls incrementally to achieve the desired flow rate. Changes can be made while the pump is in operation.

6. MAINTENANCE

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

- **Daily/Weekly:**
 - Inspect tubing for leaks, kinks, or damage.
 - Check chemical levels in the supply tank.
 - Verify consistent pump operation and flow rate.
- **Monthly/Quarterly:**
 - Clean the pump exterior and surrounding area.
 - Inspect check valves and diaphragm for wear or chemical buildup. Replace if necessary.
 - Clean the foot valve strainer.
- **Annual:**
 - Consider a complete overhaul kit for critical components like the diaphragm and check valves,

especially in continuous duty applications.

7. TROUBLESHOOTING

Refer to the following table for common issues and their potential solutions.

Problem	Possible Cause	Solution
Pump not priming	Air in suction line, clogged foot valve, worn check valves, suction lift too high.	Bleed air, clean foot valve, inspect/replace check valves, reduce suction lift.
Inconsistent flow	Air in system, partially clogged lines, worn diaphragm, fluctuating back pressure.	Re-prime, clear lines, inspect/replace diaphragm, stabilize back pressure.
Pump not running	No power, tripped circuit breaker, motor failure, solenoid issue.	Check power supply, reset breaker, contact qualified technician for motor/solenoid inspection.
Excessive noise	Cavitation, loose mounting, worn components.	Check suction conditions, tighten mounting, inspect for worn parts.

8. SPECIFICATIONS

Attribute	Value
Brand	Pulsafeeder
Model Number	LB64SA-PTC1-XXX
Type	Positive Displacement Diaphragm Metering Pump
Control	Dual Manual (Stroke Rate & Stroke Length)
Manufacturer	PULSAFEEDER
Package Dimensions	12.73 x 11.03 x 8.86 inches
Item Weight	8.46 Pounds
ASIN	B00CXGKM02

9. WARRANTY AND SUPPORT

For specific warranty details, please refer to the documentation provided with your purchase or contact Pulsafeeder directly. Technical support and replacement parts can be obtained through authorized Pulsafeeder distributors or their official website.

Manufacturer: Pulsafeeder

Website: www.pulsafeeder.com (Example link, actual link may vary)