Dosatron 07835

Instruction Manual

Dosatron D8RE3000 VF Proportional Doser

Model: 07835

1. Introduction

The Dosatron D8RE3000VF proportional doser is engineered for precise and reliable liquid dosage without the need for electricity. It operates solely on the water flow, making it an efficient and environmentally friendly solution for various applications. The internal motor drives a piston, accurately promoting the medium to be dosed into the water stream, ensuring a consistent mixture. Its purely proportional drive guarantees precise and reliable operation, even under fluctuating pressure conditions. The dosage rate is easily adjustable, providing flexibility for different requirements.

2. Product Overview

Image: The Dosatron D8RE3000VF proportional doser, a blue cylindrical unit with water inlet/outlet ports and a black dosage adjustment mechanism at the bottom. This device is designed for inline installation to accurately dose liquids into a water flow.

Key Features:

- Operates without electricity, powered by water flow.

- Precise and reliable liquid dosage, even with pressure fluctuations.
- Easy adjustment of dosing rate.
- Suitable for water flow rates from 500 l/h to 8 m^3/h.
- Dosage range: 0.03% - 0.125%.
- Permissible system pressure: 0.15 - 8 bar.
- VF sealing material for compatibility with acid media.
- Integrated ventilation and anti-siphon system.

3. Setup and Installation

Proper installation is crucial for the optimal performance of your Dosatron D8RE3000VF. Ensure all connections are secure and leak-free.

1. **Unpacking:** Carefully remove the Dosatron unit from its packaging. Inspect for any visible damage.
2. **Mounting:** Mount the Dosatron vertically in a bypass or inline configuration, ensuring it is easily accessible for adjustments and maintenance.
3. **Water Connections:** Connect the water inlet (marked) to your main water supply and the outlet to your distribution system. The unit features 1 1/2 inch male thread water connections. Use appropriate fittings and sealants to prevent leaks.
4. **Suction Tube Connection:** Connect the suction tube to the dosage adjustment mechanism at the bottom of the unit. Ensure the other end of the suction tube is placed into the liquid concentrate container.
5. **Priming:** Before operation, ensure the unit is properly primed by allowing water to flow through it until all air is purged from the system and the suction tube.

Note: It is recommended to install a filter upstream of the Dosatron to protect it from particulate matter in the water supply.

4. Operating Instructions

The Dosatron D8RE3000VF is designed for straightforward operation. Follow these steps to adjust and maintain your desired dosage.

1. **Setting Dosage Rate:** The desired dosing rate (0.03% - 0.125%) can be easily set by rotating the adjustment ring located at the bottom of the unit. Align the indicator with the desired percentage on the scale.
2. **Starting Operation:** Once the dosage rate is set and the concentrate container is in place, slowly open the water supply valve to allow water to flow through the Dosatron. The unit will begin to draw and mix the concentrate proportionally.
3. **Monitoring:** Periodically check the concentrate level in your container and the output mixture to ensure consistent operation.
4. **Stopping Operation:** To stop dosing, close the water supply valve to the Dosatron.

Important: Do not operate the unit dry. Always ensure water is flowing through the unit when it is in operation.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Dosatron D8RE3000VF.

- **Rinsing:** After each use or when changing concentrates, it is recommended to rinse the Dosatron by running clean water through it for several minutes with the dosage set to 0% (or minimum setting) to flush out any residual chemicals.

- **Inspection:** Periodically inspect the suction tube, seals, and connections for wear, cracks, or leaks. Replace any damaged components immediately.
- **Cleaning:** If the unit's performance degrades, it may require internal cleaning. Consult a qualified technician or the manufacturer's service guidelines for detailed cleaning procedures.
- **Winterization:** If the unit is to be stored in freezing temperatures, ensure it is completely drained of water to prevent damage from ice expansion.

6. Troubleshooting

This section provides solutions to common issues you might encounter with your Dosatron D8RE3000VF.

Problem	Possible Cause	Solution
No dosage or inconsistent dosage	• Air in suction tube or unit • Suction tube kinked or blocked • Concentrate container empty • Dosage setting too low • Internal seals worn	• Bleed air from the system • Check and clear suction tube • Refill concentrate container • Adjust dosage setting • Contact service for seal replacement
Water leakage	• Loose connections • Damaged O-rings or seals • Cracked housing	• Tighten all connections • Inspect and replace damaged seals • Contact service for housing repair/replacement
Reduced water flow	• Clogging within the unit or filter • Low incoming water pressure	• Clean or replace filter; flush unit • Verify water supply pressure meets specifications

If the problem persists after attempting these solutions, please contact Dosatron customer support or a certified service technician.

7. Technical Specifications

Parameter	Value
Model	D8RE3000VF
Part Number	07835
Working Range (Water Flow)	500 l/h - 8 m³/h
Dosage Range	0.03% - 0.125%
Operating Water Pressure	0.15 - 8 bar
Operating Water Temperature	5 - 40 °C
Pressure Loss	0.2 - 1.7 bar
Water Connections	1 1/2 inch male thread

Parameter	Value
Sealing Material	VF (for acid media)
Weight	6 kg