

Dosatron D25RE10

Dosatron D25RE10 VF Doser Instruction Manual

Model: D25RE10 (P/N: 03983)

PRODUCT OVERVIEW

The Dosatron D25RE10 VF proportional doser is engineered for precise and reliable liquid dosing without the need for electricity. It operates solely on water flow, making it an efficient solution for various applications requiring accurate additive injection.

This device utilizes the water flow to drive a piston, which in turn injects the desired medium into the water stream, creating a homogeneous mixture. Its purely proportional operation ensures consistent dosing accuracy, even with fluctuations in water pressure.



Figure 1: The Dosatron D25RE10 VF proportional doser. This image shows the main blue body of the doser with its inlet and outlet

KEY FEATURES

- **Non-Electric Operation:** Powered by water flow, eliminating the need for external power sources.
- **Precise Dosing:** Ensures accurate and consistent injection of liquids.
- **Proportional Dosing:** Maintains the set dosing rate regardless of flow rate or pressure variations.
- **Adjustable Dosing Rate:** Simple adjustment of the desired dosing percentage.
- **Durable Construction:** Features VF material seals suitable for various media.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your Dosatron D25RE10 VF doser. Follow these steps carefully:

1. **Choose Location:** Select a location that is easily accessible for maintenance and protected from extreme temperatures or direct sunlight. Ensure the doser is installed vertically.
2. **Pre-Filter Installation:** It is highly recommended to install a filter (e.g., 60-micron) upstream of the Dosatron to protect it from particulate matter in the water supply.
3. **Bypass Line:** Install a bypass line around the Dosatron to allow for maintenance or removal without interrupting the main water flow.
4. **Connections:** Connect the Dosatron to your water line using the 3/4 male thread connections. Ensure all connections are watertight using appropriate sealing tape or compound. The inlet is typically marked with an arrow indicating flow direction.
5. **Suction Tube:** Connect the suction tube from the doser's injection stem to your concentrate solution container. Ensure the tube reaches the bottom of the container to prevent air intake.
6. **Purge Air:** Before operation, slowly open the water supply to allow the system to fill and purge any trapped air.

Important: Always refer to local plumbing codes and regulations during installation.

OPERATING INSTRUCTIONS

The Dosatron D25RE10 VF is designed for straightforward operation. Follow these steps to begin dosing:

1. **Prepare Concentrate:** Ensure your concentrate solution is properly mixed and ready in its container.
2. **Set Dosing Rate:** Adjust the dosing percentage on the adjustment sleeve of the Dosatron. The D25RE10 VF allows for a dosing range of 3% to 10%. Rotate the sleeve until the desired percentage aligns with the indicator mark.
3. **Open Water Supply:** Slowly open the main water supply valve to the Dosatron. The unit will begin to operate as water flows through it.
4. **Verify Operation:** Observe the Dosatron's operation. You should see the piston moving, indicating that the concentrate is being drawn and mixed.
5. **Monitor Concentrate Level:** Regularly check the level of your concentrate solution and refill as needed to ensure continuous dosing.

Note: The Dosatron automatically adjusts the injection rate proportionally to the water flow, ensuring consistent concentration of the final solution.

MAINTENANCE

Regular maintenance ensures the longevity and accurate performance of your Dosatron D25RE10 VF. Perform the following tasks:

- **Rinsing:** After each use, or periodically if used continuously, rinse the Dosatron by running clean water through it. This helps prevent residue buildup from the concentrate.
- **Filter Cleaning:** Regularly inspect and clean the pre-filter installed upstream of the Dosatron. A clogged filter can reduce water flow and affect performance.
- **Seal Inspection:** Periodically inspect the VF seals for any signs of wear, cracking, or damage. Replace seals as necessary to prevent leaks and maintain proper dosing.
- **Storage:** If storing the unit for an extended period, thoroughly rinse it with clean water, drain completely, and store in a dry, frost-free environment.

Caution: Always depressurize the system and close water supply valves before performing any maintenance.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No Dosing / Inconsistent Dosing	No water flow or insufficient pressure. Air in the suction line or concentrate container empty. Clogged filter or internal components. Incorrect dosing rate setting.	Check water supply and pressure (0.3-6 bar). Ensure suction tube is submerged; refill concentrate. Clean pre-filter; inspect and clean internal parts. Verify dosing rate setting.
Water Leakage	Loose connections. Damaged or worn seals.	Tighten all connections. Inspect and replace damaged VF seals.
Reduced Flow Rate	Clogged pre-filter. Internal blockage.	Clean or replace pre-filter. Disassemble and clean the unit according to service manual.

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

SPECIFICATIONS

Parameter	Value
Model	D25RE10 VF
Part Number	03983
Operating Range (Water Flow)	10 L/H – 2 m³/h
Dosing Range	3% – 10%
Water Pressure	0.3 – 6 bar

Parameter	Value
Operating Water Temperature	5 – 40 °C (41 – 104 °F)
Pressure Loss	0.3 – 1.4 bar
Connections	3/4" Male Thread
Seal Material	VF (Viton/Fluoroelastomer)
Weight	1 Kilogram (2.2 lbs)
UPC	661647016658

WARRANTY AND SUPPORT

Dosatron products are manufactured to high standards and are designed for durability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official Dosatron website. For technical support, spare parts, or service inquiries, please contact your authorized Dosatron distributor or the manufacturer directly. When contacting support, please have your model number (D25RE10 VF) and part number (03983) ready.

Manufacturer: Dosatron

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question