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› [Dosatron](#) /

› [DOSATRON D25RE2 D25RE2VFII Water-Powered Chemical Injector User Manual](#)

Dosatron D25RE2VFII

DOSATRON D25RE2 D25RE2VFII Water-Powered Chemical Injector User Manual

Model: D25RE2VFII | Brand: Dosatron

PRODUCT OVERVIEW

The Dosatron D25RE2VFII is a water-powered chemical injector designed for precise and consistent dosing of various solutions into a water line. It operates without electricity, utilizing water flow as its power source, making it ideal for diverse applications in livestock, poultry, and animal health.

This injector ensures accurate mixing of concentrates, supporting biosecurity protocols and improving animal health and performance by delivering the correct mixture every time.



Image: Front view of the Dosatron D25RE2VFII Water-Powered Chemical Injector, showing its blue body and black lower section with inlet/outlet ports.

SAFETY INFORMATION

It is crucial to ensure proper plumbing to a water source and secure installation of the Dosatron D25RE2VFII to prevent water leakage and potential damage to the unit or surrounding environment. Always follow local plumbing codes and safety guidelines during installation and operation.

WHAT'S IN THE BOX

- One (1) Dosatron D25RE2VFII water-powered chemical injector
- Included accessories necessary for basic operation and installation

SPECIFICATIONS

Feature	Detail
Item Model Number	D25RE2VFII
Brand	Dosatron
Material	Brass, Stainless Steel, or Polypropylene
Model Name	D25RE2
Power Source	Water-powered
Special Feature	Programmable, Adjustable
Flow Range	0.05 to 11 GPM (0.19 to 42 LPM)
Pressure Range	4.3 to 85 PSI
Ratio Range	1:500 to 1:50
Percentage Range	0.2 to 2%
Ounces Per Gallon Range	0.256 to 2.560
Connection Size	3/4" NPT
Unit Weight	4 lbs
Dimensions	Approximately 14" (Height) x 6 1/4" (Width)

D25RE2VFII

Livestock Health, Biosecurity, Water
Treatment, Livestock Production

Unit Weight:
4 lbs



Image: Dosatron D25RE2VFII showing unit weight (4 lbs) and approximate dimensions (14" height, 6 1/4" width).

D25RE2VFII

Livestock Health, Biosecurity, Water Treatment, Livestock Production



Flow:
to 11 GPM (0.19 to 42 LPM)

Pressure:
4.3 to 85 PSI

Ratio Range:

Percentage Range:
0.2 to 2%

Ounces Per Gallon Range:
0.256 to 2.560

Connection Size:
3/4" NPT

Image: Dosatron D25RE2VFII displaying detailed specifications including Flow, Pressure, Ratio Range, Percentage Range, Ounces Per Gallon Range, and Connection Size.

How It Works

The Dosatron D25RE2VFII operates on a simple, water-powered principle, ensuring precise and consistent dosing without the need for electricity. As water flows through the unit, it activates a piston, which in turn draws a precise amount of concentrate from a separate container and injects it into the water line. This creates a homogeneous solution that is then discharged downstream.

1. **Water Flow:** Water enters the Dosatron unit.
2. **Water Enters Body:** The incoming water flows through the main body of the Dosatron.
3. **Concentrate Pulled Up:** A piston, driven by the water flow, pulls the concentrate from the solution container into the Dosatron.
4. **Concentrate Mixes:** The concentrate is precisely mixed with the incoming water inside the unit.
5. **Blended Solution Discharged:** The accurately blended solution is then discharged into the water line for distribution.

How It Works



1. Water Flow
2. Water enters the Dosatron body
3. Concentrate is pulled up into the Dosatron
4. Concentrate mixes with the incoming water
5. Blended solution is discharged into the water line

 **DOSATRON**[®]
An Ingersoll Rand Business

Image: A diagram illustrating the internal mechanism of the Dosatron D25RE2VFII, showing water flow, concentrate intake, mixing, and discharge points.

INSTALLATION AND SETUP

The Dosatron D25RE2VFII is designed for seamless integration into existing water systems. Its 3/4" NPT fittings allow for direct connection, minimizing installation complexity.

Pre-Installation Checklist:

- Ensure the water supply is turned off before beginning installation.
- Verify that the installation location provides adequate space for the unit and access for maintenance.
- Confirm that the water pressure and flow rate are within the specified operating ranges (4.3 to 85 PSI, 0.05 to 11 GPM).
- Have appropriate plumbing tools and sealing materials (e.g., thread sealant) ready.

Installation Steps:

- Select Location:** Choose a suitable location in your water line where the Dosatron can be easily accessed and is protected from extreme conditions.
- Prepare Plumbing:** Cut into the main water line where the injector will be installed. Ensure clean cuts and deburr any edges.
- Apply Sealant:** Apply appropriate thread sealant to the 3/4" NPT fittings of the Dosatron.
- Connect Unit:** Connect the Dosatron D25RE2VFII into the water line, ensuring the flow direction arrow on the unit matches the water flow. Tighten connections securely but do not overtighten.
- Install Suction Tube:** Place the suction tube into the concentrate solution container. Ensure the tube reaches the bottom of the container to maximize concentrate usage.
- Check for Leaks:** Slowly turn on the water supply and carefully inspect all connections for any leaks. Tighten as necessary.
- Prime the Unit:** Allow water to flow through the unit until it is fully primed and the concentrate begins to be drawn.

OPERATING INSTRUCTIONS

Adjusting Dosage:

The Dosatron D25RE2VFII features an adjustable dosage rate, allowing you to set the desired percentage of concentrate to be injected. This is typically done by rotating a collar or dial on the unit, which corresponds to the percentage or ratio markings.

- Identify the adjustment mechanism on your Dosatron unit.
- Rotate the adjustment collar/dial to align with the desired injection percentage (0.2% to 2%) or ratio (1:500 to 1:50).
- Ensure the setting is locked or secured if applicable, to prevent accidental changes.

Preparing Solutions:

Always prepare your chemical solutions according to the manufacturer's instructions for the concentrate. Ensure the solution is well-mixed and free of large particulates that could clog the injector.

Continuous Operation:

Once installed and primed, the Dosatron will continuously inject the set percentage of concentrate as long as water flows through it. Monitor the concentrate level in your solution container and refill as needed to ensure uninterrupted dosing.

MAINTENANCE

Regular maintenance is essential to ensure the longevity and accurate performance of your Dosatron D25RE2VFII. The unit is designed to be durable and easy to service.

Routine Checks:

- Visual Inspection:** Periodically inspect the unit for any signs of leaks, cracks, or damage.
- Suction Tube:** Ensure the suction tube is clean and free of blockages. Clean or replace if necessary.
- Solution Container:** Keep the concentrate solution container clean to prevent contamination and buildup.

Cleaning and Servicing:

For optimal performance, it is recommended to periodically clean the internal components and replace wear parts. Dosatron offers specific seal kits, rebuild kits, and maintenance tools for this purpose.

- **Disassembly:** Refer to the detailed service manual (not included here, but typically provided by Dosatron) for specific disassembly instructions.
- **Cleaning:** Rinse internal components with clean water to remove any chemical residues or buildup. Use a soft brush if necessary.
- **Seal Replacement:** Replace seals and O-rings as part of a preventative maintenance schedule or if leaks are detected.
- **Reassembly:** Reassemble the unit carefully, ensuring all components are correctly seated and tightened.

Note: Always turn off the water supply and relieve pressure before performing any maintenance or servicing on the unit.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No injection/Concentrate not drawn	<ul style="list-style-type: none">◦ Air in suction tube◦ Clogged suction tube/filter◦ Empty concentrate container◦ Incorrectly set dosage◦ Low water flow/pressure◦ Worn internal seals	<ul style="list-style-type: none">◦ Prime the unit; ensure suction tube is fully submerged.◦ Clean suction tube and filter.◦ Refill concentrate container.◦ Adjust dosage setting correctly.◦ Verify water flow and pressure meet specifications.◦ Inspect and replace seals if necessary.
Leaks from unit	<ul style="list-style-type: none">◦ Loose connections◦ Damaged or worn seals/O-rings◦ Cracked housing	<ul style="list-style-type: none">◦ Tighten all connections.◦ Replace damaged or worn seals/O-rings.◦ Contact Dosatron support for housing replacement if cracked.
Inconsistent dosing	<ul style="list-style-type: none">◦ Fluctuating water pressure/flow◦ Air in the system◦ Partial blockage	<ul style="list-style-type: none">◦ Ensure stable water supply.◦ Bleed air from the system.◦ Perform thorough cleaning of the unit.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact Dosatron customer support for further assistance.

APPLICATIONS

The Dosatron D25RE2VFII is a versatile chemical injector suitable for a wide range of applications, particularly in agricultural and animal health settings:



Livestock Health

Accurately medicate your pigs, poultry, and other livestock at any age, ensuring optimal health and productivity for your operation.

Biosecurity

Maintain a healthy environment by accurately dosing disinfectants and sanitizers in your livestock facilities.



Water Treatment

Safeguard your animals' drinking water by consistently treating it with the correct amount of additives.

Livestock Production

Dosatron pumps support all types of livestock production by accurately dispensing medications, supplements, and disinfectants for optimal animal health and facility hygiene.



Image: Collage showing various applications of Dosatron injectors, including livestock health, biosecurity, water treatment, and livestock production.

- **Livestock Health:** Accurately medicate pigs, poultry, and other livestock at any age, ensuring optimal health and productivity.
- **Biosecurity:** Maintain a healthy environment by accurately dosing disinfectants and sanitizers in livestock facilities.
- **Water Treatment:** Safeguard animal drinking water by consistently treating it with the correct amount of additives.
- **Livestock Production:** Support all types of livestock production by accurately dispensing medications, supplements, and disinfectants for optimal animal health and facility hygiene.

WARRANTY AND SUPPORT

For information regarding the product warranty, technical support, or to purchase replacement parts and maintenance kits, please refer to the official Dosatron website or contact their customer service department. Keep your purchase receipt and model number (D25RE2VFII) readily available when seeking support.

Dosatron is committed to providing durable, easy-to-use, and low-maintenance products, backed by reliable

customer support.

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This manual is for informational purposes only. Specifications are subject to change without notice.