

**VOSS**  
— DOSING —



# VX Series

Presented by

**Technical Team**

Future Innovations

**James Whitmore**

**VOSS**

[www.vossdosing.com](http://www.vossdosing.com)  
[marketing@vossdosing.com](mailto:marketing@vossdosing.com)

# Introduction

## Innovating Fluid Control Solutions Worldwide

VOSS is committed to delivering cutting-edge technologies in fluid control systems. Our state-of-the-art manufacturing facilities combine advanced engineering with precision craftsmanship to create reliable, high-performance products. With a focus on sustainability and efficiency, we aim to meet the evolving demands of various industries and ensure customer satisfaction through our innovative solutions.

## Our Mission

Our mission is to provide superior products that enhance efficiency and precision in pumping applications. We strive to lead in technological advancements while maintaining rigorous quality standards. By fostering a culture of continuous improvement, we aim to empower our partners and customers with solutions that are not only efficient but also environmentally responsible, contributing to a sustainable future.

## Our Vision

We envision a future where advanced fluid control technologies seamlessly integrate into industrial operations, optimizing performance and enhancing productivity. By leveraging smart engineering and innovative design, we aim to redefine industry standards and set benchmarks in quality and efficiency. Our commitment to excellence drives us to explore new horizons in engineering, placing us at the forefront of the fluid control industry.

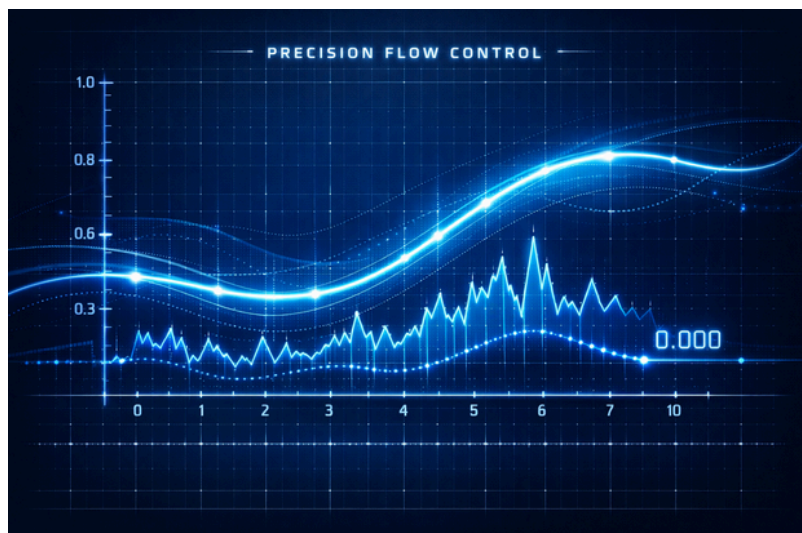


# VX Series

Overview of the VOSS VX Series

## Idea One

The **VOSS VX Series** offers unparalleled precision in fluid dosing applications. Designed for demanding industrial environments, these servo diaphragm pumps ensure consistent performance and reliability across a range of applications. Each pump is engineered with cutting-edge technology, allowing for optimal flow rates and accuracy, meeting the highest standards of quality demanded in various industries.



## Idea Two

Key Features of VX Series Pumps

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### Precision

- High accuracy
- Consistent flow rates
- Durable design

### Technology

- Advanced servo motors
- High-resolution feedback
- Intelligent control

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### Customization

- Multi-color options
- Tailored solutions
- Versatile applications

### Integration

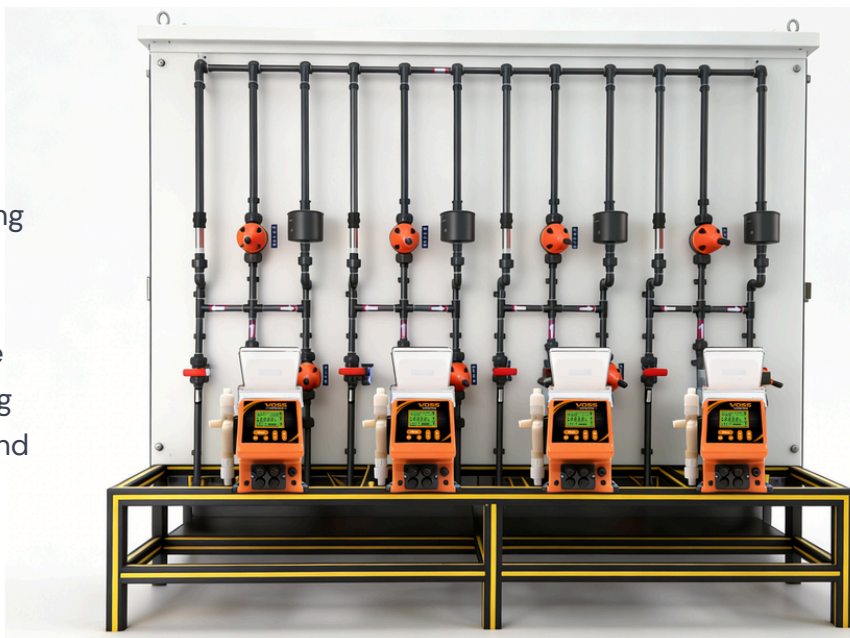
- Seamless connectivity
- User-friendly interface
- Robust performance

# Integration Systems

Seamless Connectivity for Enhanced Performance

## System Overview

The VOSS VX Series pumps can be integrated into various systems, allowing for seamless data exchange and operational efficiency. Our advanced integration capabilities ensure that the pumps work harmoniously with existing infrastructure, enhancing monitoring and control for optimized performance in demanding applications.



## Key Features

Essential Elements of Integration Systems

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### Compatibility

- Industry Standards
- Modular Design
- Versatile Interfaces

### Efficiency

- Real-Time Monitoring
- Automated Control
- Reduced Downtime

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### Customization

- Tailored Solutions
- Flexible Configurations
- User-Friendly Interfaces

### Support

- Expert Guidance
- Comprehensive Training
- Ongoing Maintenance

# Servo Precision

Technology: Innovation Unleashed

## Advanced Servo Motor

The VOSS VX Series features an **advanced servo motor** that ensures unparalleled precision and efficiency in dosing applications. This cutting-edge technology optimally controls pump performance, delivering consistent flow rates with minimal energy consumption. Designed for versatility, the servo motor adapts seamlessly to various operational demands, making it an ideal solution for diverse industrial environments.

## High-Resolution Feedback System

Equipped with a **high-resolution feedback system**, the VX Series guarantees exceptional accuracy and reliability. This innovative system continuously monitors performance, providing real-time data to ensure optimal dosing precision. By integrating advanced sensors and control algorithms, the feedback mechanism enables swift adjustments, enhancing both the efficiency and responsiveness of the dosing process across various applications.



# Key Features

Unmatched Performance and Reliability in Pumps

## High Accuracy

The VOSS VX Series servo diaphragm dosing pump delivers **exceptional accuracy** in fluid dosing applications. With its advanced servo technology, the pump ensures precise adjustments, enabling operators to achieve exact flow rates consistently. This high level of accuracy minimizes waste and enhances overall process efficiency.



## Repeatability

Consistent Performance Across All Applications

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### Accuracy

- Consistent flow rates
- Enhanced efficiency
- Reduced waste

### Maintenance

- Easy servicing
- Long-lasting components
- Lower operational costs

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### Durability

- Robust design
- High-quality materials
- Extended lifespan

### Efficiency

- Energy-saving technology
- Optimized performance
- Minimal downtime

# Intelligent Control

A New Era of Precision Dosing

## Enhanced Interface

The intelligent control interface of the VOSS VX Series **revolutionizes** user interaction with its sleek design and intuitive functionality. Featuring a high-resolution touchscreen, users can easily monitor and adjust settings, ensuring optimal performance. Integrated feedback systems offer real-time data, guaranteeing precision and reliability in every application.



## Key Features

Intelligent Control Enhancements and Benefits

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### Precision

- High-resolution feedback
- Real-time monitoring
- User-friendly interface

### Connectivity

- Remote access capabilities
- Integration with existing systems
- Data logging features

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### Customization

- Adjustable settings
- User-defined parameters
- Personalized profiles

### Efficiency

- Energy-saving modes
- Low-maintenance design
- Quick response times

# Technical Specifications

Detailed Parameters for Optimal Performance

## Precision Engineering

The VOSS VX Series pumps are engineered with **cutting-edge technology** to ensure unmatched accuracy in dosing applications. Each unit is rigorously tested to meet stringent industry standards, guaranteeing reliability and performance in demanding environments. Specifications highlight the intricacies of the design, ensuring each pump operates at peak efficiency.



## Key Metrics

Comprehensive Overview of Pump Specifications

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### Capacity

- 1-30 L/h
- Adjustable Flow Rate

### Pressure

- Up to 10 Bar
- Robust Performance

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### Power

- AC 220 V / 50 Hz
- Energy Efficient

### Weight

- Compact Design
- Lightweight Materials

# VX Specifications

- High-precision micro-flow dosing for continuous low-volume injection
- Servo-driven mechanism for fast response and stable operation
- Low pulsation output for improved dosing uniformity
- Corrosion-resistant wetted parts for a wide range of chemical media
- Compact structure for OEM and skid integration
- Modular design for easier installation and maintenance
- Multiple color options available for OEM customization
- Combines engineering reliability with modern industrial design

## Model Selection Table

Model	Max. Flow Rate (L/h)	Max. Pressure (bar)	Power	Interface	Weight
VX08-10	8	10	80 W	12×8	2.78 kg
VX15-06	15	6	80 W	12×8	2.78 kg
VX30-04	30	4	80 W	12×8	2.78 kg

## General Technical Data

Parameter	Value
Flow Adjustment Range	0–100%
Measuring Accuracy	±1%
Repeatability	±1%
Maximum Suction Lift	2 m
Permissible Medium Temperature	0–60 °C
Permissible Ambient Temperature	0–40 °C
Power Supply	AC 220 V / 50 Hz
Protection Class	IP65



# Model Selection

## Choose Your Perfect VOSS VX Series Pump

The VOSS VX Series offers a range of models tailored to meet diverse industrial needs. Each model, from **VX01** to **VX30**, is engineered for precision and efficiency in dosing applications. The selection includes various capacities, ensuring optimal performance for any specific requirement, whether it be for water treatment, laboratory dosing, or chemical injection. Our robust design philosophy integrates advanced servo technology and intelligent control interfaces, enhancing reliability and ease of use. By selecting the right model, customers can achieve unparalleled accuracy and repeatability, making VOSS the preferred choice for modern dosing solutions.



## Enhanced Precision

Introduced advanced servo technology for accurate dosing.

## Increased Versatility

Expanded range to accommodate diverse applications and needs.

## Proven Reliability

Established a reputation through rigorous testing and quality assurance.

## Sustainable Solutions

Committed to eco-friendly practices and energy efficiency.

# Applications

Optimizing Dosing for Various Industries

## Water Treatment Solutions

The VOSS VX Series pumps are engineered for **optimal performance** in water treatment applications. Their precision dosing capabilities ensure that the right amount of chemical is dispensed, effectively managing water quality. This reliability is crucial for maintaining environmental standards and enhancing the efficiency of treatment processes.



## Laboratory Dosing Systems

The VX Series pumps excel in laboratory settings, where **accuracy is paramount**. These servo diaphragm pumps deliver precise volumes with minimal fluctuation, making them ideal for sensitive experiments and formulations. Their robust design and reliable operation ensure consistency in results, which is essential for scientific research and developments.



# Applications

Chemical Injection and OEM Equipment

## Chemical Injection

VOSS VX Series pumps excel in **chemical injection** applications due to their precise dosing capabilities. They handle a range of chemicals reliably, ensuring optimal mixing and treatment processes in various industries. Their robust design guarantees durability while maintaining high accuracy, making them essential for safe and efficient chemical handling in any operational environment.



## OEM Equipment

Seamless Integration for Precision Applications

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### Precision

- Enhanced performance
- Consistent outcomes
- Tailored solutions

### Flexibility

- Custom configurations
- Space-efficient design
- Diverse applications

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### Reliability

- Durable construction
- Long service life
- Low maintenance needs

### Innovation

- Cutting-edge technology
- Smart features
- Future-ready systems

# Design Philosophy

## Merging Aesthetics with Functionality

At VOSS, our design philosophy emphasizes the **harmonious balance** between aesthetics and functionality. Our products are engineered to not only perform with precision but also stand out in modern industrial environments. Each design element is meticulously crafted to enhance user interaction, ensuring that our servo diaphragm dosing pumps are as visually appealing as they are efficient.

### Aesthetic Appeal

The VOSS VX Series pumps feature a **sleek, modern design** that integrates seamlessly into any workspace. With smooth lines and a matte finish, these pumps embody a futuristic aesthetic that captivates while conveying the strength and reliability of advanced engineering. The careful color selection enhances visibility and recognition, making them an attractive addition to any facility.

### Functional Design

Each feature of the VX Series has been thoughtfully engineered for optimal performance. The ergonomic layout of controls ensures intuitive operation, while the durable materials guarantee longevity. By prioritizing both appearance and functionality, VOSS ensures that our pumps not only meet the demands of industrial applications but also elevate the overall environment in which they operate.



# Customization

Tailoring to Your Specific Needs

## Idea One

Our VOSS VX Series pumps offer **extensive customization** options that allow clients to select colors that best match their brand identity. With a spectrum of vibrant hues, we ensure that your pump not only performs exceptionally but also visually integrates into your existing system, elevating its overall aesthetic appeal in any industrial environment.



## Idea Two

Diverse Color Selection Available

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### Standard

- Red
- Blue
- Yellow

### Premium

- Metallic Red
- Matte Black
- Glossy Green

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### Custom

- Any Pantone Color
- Unique Designs
- Brand Matching

### Limited

- Seasonal Editions
- Special Events
- Exclusive Offers

# Integration Systems

Seamless Connectivity for Enhanced Performance

## System Overview

The VOSS VX Series pumps can be integrated into various systems, allowing for seamless data exchange and operational efficiency. Our advanced integration capabilities ensure that the pumps work harmoniously with existing infrastructure, enhancing monitoring and control for optimized performance in demanding applications.



## Key Features

Essential Elements of Integration Systems

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### Compatibility

- Industry Standards
- Modular Design
- Versatile Interfaces

### Efficiency

- Real-Time Monitoring
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### Customization

- Tailored Solutions
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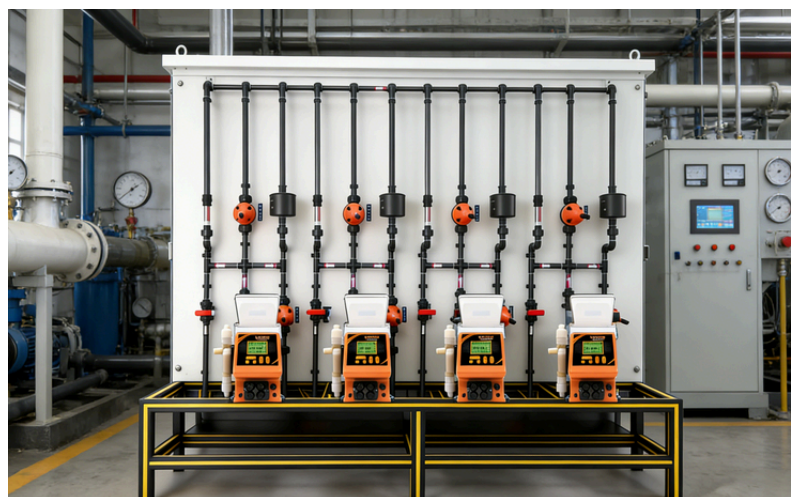
### Support

- Expert Guidance
- Comprehensive Training
- Ongoing Maintenance

# Top new energy manufacturing enterprise

## Case Study

In a recent project, a leading water treatment facility implemented the VOSS VX Series pumps, achieving significant improvements in efficiency and accuracy. This transition resulted in reduced operational costs and improved water quality, showcasing the transformative power of our advanced servo diaphragm dosing technology in real-world applications.



## Performance Metrics

Key results from our success stories

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### Efficiency

- 30% reduced energy consumption
- Streamlined operations

### Accuracy

- 98% dosage precision
- Consistent performance

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### Sustainability

- Lower emissions
- Eco-friendly solutions

### Customer Feedback

- Increased satisfaction
- Long-term partnerships

# Real-world impacts of VOSS VX pumps

In a recent semiconductor chemical delivery project, a leading wafer fabrication facility implemented the VOSS VX Series pumps for the precise dosing of process chemicals and additives. By replacing conventional dosing equipment with advanced servo diaphragm technology, the facility achieved more stable flow control, higher dosing repeatability, and improved process consistency. This upgrade helped reduce chemical waste, minimize manual intervention, and enhance the overall reliability of the chemical supply system in a highly demanding cleanroom production environment.



## Efficiency

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- Reduced chemical waste by 20%
- Lower manual adjustment frequency
- Improved production line stability

## Accuracy

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- High-precision micro-dosing performance
- Stable and repeatable chemical delivery
- Better batch-to-batch consistency

## Sustainability

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- Reduced unnecessary chemical consumption
- Lower risk of process deviation and scrap
- Cleaner and more controlled delivery process

## Customer Feedback

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- Higher confidence in dosing reliability
- Improved process control satisfaction
- Stronger trust in long-term system performance

# Real-world impacts of VOSS VX pumps

In a battery materials production project, a new energy manufacturer adopted the VOSS VX Series pumps for the accurate dosing of electrolyte additives, coating agents, and process chemicals. With the need for highly controlled liquid delivery in battery manufacturing, the VOSS system provided stable flow output, fast response, and reliable metering performance. As a result, the manufacturer improved product consistency, reduced raw material overuse, and strengthened quality control across the production line, supporting both efficiency and high-end battery performance requirements.



## Efficiency

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- Reduced additive overuse by 15%
- Faster parameter adjustment during production
- Improved operational efficiency on the line

## Accuracy

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- Consistent dosing across multiple production batches
- More precise control of critical process liquids
- Enhanced coating and formulation stability

## Sustainability

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- Reduced raw material waste
- Improved resource utilization efficiency
- Supported greener battery manufacturing processes

## Customer Feedback

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- More stable product quality
- Better control of liquid dosing processes
- Increased satisfaction with automation capability

# Real-world impacts of VOSS VX pumps

In a PCB manufacturing process upgrade, a leading circuit board producer introduced the VOSS VX Series pumps for the precision dosing of copper foil treatment chemicals and process additives. The previous system faced challenges such as unstable flow, inconsistent dosing, and frequent manual correction. After implementing the VOSS solution, the manufacturer achieved more uniform chemical delivery, improved process repeatability, and greater control over critical treatment stages. This resulted in better surface treatment consistency, reduced chemical loss, and improved product quality throughout the PCB production process.



## Efficiency

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- Reduced chemical consumption by 18%
- Less manual intervention in dosing control
- Improved production continuity

## Accuracy

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- More consistent additive dosing
- Better control of copper foil treatment process
- Improved product uniformity and repeatability

## Sustainability

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- Reduced waste liquid generation
- Lower overall chemical loss
- More efficient use of treatment materials

## Customer Feedback

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- Improved production process confidence
- Better product quality consistency
- Greater satisfaction with long-term reliability

# Quality Assurance

Ensuring Excellence in Pump Performance

## Testing Process

Each VOSS VX Series pump undergoes rigorous **quality assurance testing** to ensure optimal performance. Our testing protocols include precision flow measurement and pressure testing, ensuring that every pump delivers on its promise of reliability and accuracy. This commitment to excellence guarantees a product that meets the highest industrial standards for our clients.



## Key Features

Highlights of Our Testing Standards

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### Accuracy

- Precision flow measurement
- Pressure testing protocols
- Calibration checks

### Reliability

- Long-term performance testing
- Stress testing under various conditions
- Consistent quality control

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### Compliance

- Industry standard certification
- Environmental safety assessments
- Compliance documentation

### Innovation

- Continuous improvement practices
- Advanced testing technologies
- Feedback integration from clients



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