

Chemical dosing pumps and solutions

Cases & articles

Chemical dosing the right way

How to future-proof water treatment with intelligent chemical dosing

GRUNDFOS 

Possibility in every drop

Why smarter chemical dosing matters – now more than ever

Water is fundamental – and how we treat it is changing fast. From tighter regulations to rising operational costs, companies are being pushed to rethink water treatment strategies that were once considered ‘good enough’. Today, precision, reliability and adaptability are no longer extras – they’re essential.

This e-book explores three critical enablers of future-proof chemical dosing: Precision, proactivity and specificity. Together, they define the difference between compliance and risk, between waste and value, and between static systems and intelligent solutions. Through expert articles and real-world cases, we show how smarter dosing is already transforming water treatment in agriculture, food and beverage, manufacturing and more.

This e-book explores three critical enablers of future-proof chemical dosing: Precision, proactivity and specificity.

Learn how to:

- Cut costs and reduce chemical waste with precision dosing.
- Prevent downtime and improve performance through proactive monitoring.
- Benefit from solutions tailored to your specific needs.

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Why precision in chemical dosing matters

Water quality is critical to every industrial or municipal process – whether it's used as a production ingredient, to run auxiliary equipment like boilers or cooling towers, or in water distribution networks, or to ensure safe, compliant discharge back into the environment

That's why maintaining consistent water quality over time is essential. Variations can impact final product quality, drive up operational costs and even result in environmental penalties if compliance thresholds aren't met.

Why precision matters in chemical dosing

Chemical dosing plays a key role at nearly every stage of treatment – but getting the dose right is critical. Underdosing can compromise product quality and safety. Overdosing wastes chemicals, increases costs and may harm the environment. Yet manual or conventional dosing systems often can't adapt to fluctuating system conditions.

It's not just about adding chemicals. It's about delivering the exact dose, at the exact right moment. That's where precision becomes a performance advantage.

With the right chemical dosing pumps and solutions, you can achieve:

- Precise dosing with accuracy up to 1%, and up to 1:3000 turndown¹
- Dynamic flow adjustments that ensure optimal performance, even as system demands fluctuate
- Integrated safety features that protect equipment, reducing chemical exposure and extending system lifetime



Precision that transforms water treatment

Across industries, the case for precision is clear: It keeps product quality consistent, ensures operational stability and protects both people and the planet.

Whether it's disinfecting food production lines, optimising wastewater treatment or preventing scaling in membrane systems, accurate chemical dosing transforms water treatment from reactive to reliable.

Did you know?

- Traditional dosing systems can't adapt to fluctuating conditions – leading to overdosing, chemical waste and higher operational costs.



By switching from conventional dosing to intelligent, adaptive solutions, you gain control, consistency and cost savings. Grundfos SMART Digital Dosing™ pumps provide the real-time precision and flexibility needed to meet even the most demanding conditions – delivering exactly what’s required, no more, no less.

Application insights: Eliminating microbial risks in the food industry with disinfection

In the food industry, hygiene is non-negotiable. Inaccurate chemical dosing in disinfection can impact taste and safety and lead to inadequate microbial control. Disinfectants like chlorine, hydrogen peroxide and peracetic acid are volatile

and prone to degassing. When production pauses, air bubbles can form in suction lines or dosing heads, causing underdosing when operations resume and ultimately compromising microbial control.

Traditional dosing pumps typically struggle with degassing. Grundfos SMART Digital Dosing™ pumps with Flow Control Monitoring (FCM) detect and eliminate air bubbles via a built-in degassing function, ensuring consistent and maintaining precise dosing. That way you get reliable microbial control, no unexpected shutdowns and complete peace of mind.

Reducing sludge and costs in water and wastewater treatment

Efficient coagulation and flocculation also depend on precise chemical dosing. Underdosing leads to poor solids separation, which can overload filters and membranes. If the suspended solids are not within the expected range, filtration steps can be severely affected. Overdosing, on the other hand, can lead to excessive chemical use and increased sludge production – driving up transport, treatment and disposal costs.

Grundfos SMART Digital Dosing™ pumps incorporate a Slow Mode function that handles high-viscosity coagulants with precision, ensuring the right chemical balance. This improves sludge dewatering, optimises filtration and reduces both chemical waste and operational expenses.

Maximising performance and minimising scaling in membrane separation

In membrane separation processes like reverse osmosis, scaling can affect membrane longevity and system efficiency. To prevent this from happening and reduce the need for frequent clean-in-place procedures, antiscalants are employed – but both underdosing and overdosing has consequences:

- **Underdosing** can lead to permanent fouling and costly membrane replacements
- **Overdosing** wastes chemicals and increases operational costs

Fluctuating system conditions like flow and pressure require a dosing solution that adapts in real time. Grundfos SMART Digital Dosing™ pumps with FCM continuously monitor flow and pressure, automatically adjusting dosing to ensure consistent and optimal chemical delivery. This results in:

- Fewer clean-in-place cycles
- Longer membrane lifespan
- Reduced chemical consumption

Did you know?

- Switching from conventional to intelligent chemical dosing can reduce clean-in-place cycles.

Desalination plant slashes chemical waste with precision dosing

Data-based, smart digital dosing is key to optimising chemical use, improving energy efficiency and supporting more stable, scalable operations

The challenge

Permionics needed a smarter way to optimise antiscalant dosing for fluctuating source water quality at a large desalination plant in northern India. Despite running a fully automated plant designed for high-efficiency, inconsistent dosing was leading to higher energy consumption and chemical use – making it harder to improve RO recovery and scale up capacity.

The solution

Grundfos collaborated with Permionics to implement the Smart Filtration Suite at the plant.

The SmartRO algorithm, included in the suite, defined the setpoint of antiscalant dosing automatically based on data replacing fixed constant dosage.

The outcome

With Smart Filtration Suite, the plant reduced chemical consumption by up to 68% and energy use by 7%² in high-pressure pumps – optimising operations significantly. The system also delivered new operational insights through performance reporting, validating the dosing strategy and supporting future scalability.



Technical insights

SmartRO replaced constant dosing with algorithm-controlled adaptive setpoints, reducing antiscalant dosing from 4 to 1 L/h (1.1 to 0.3 US gph)² while delivering optimal water quality.

 [Read the case in detail](#)



€11,143 total yearly savings from combined efficiencies²



54% energy reduction from optimised pump operation²



46% chemical reduction due to lower antiscalant dosing²

² <https://www.grundfos.com/about-us/cases/collaborating-to-deliver-optimised-antiscalant-dosing-for-desalination>

Digital dosing protects crops and boosts food safety in agriculture

Accurate, automated chemical dosing helps growers improve pathogen control, reduce waste and ensure reliable production with diverse irrigation systems

The challenge

Growers in California needed precise, automated chemical dosing for their irrigation water, be it recycled water in greenhouses or surface water from reservoirs and canals used to irrigate large agricultural land and vineyards. Pathogen control in the irrigation water was critical to ensuring crop safety across different types of produce.

The solution

Meras Water Solutions partnered with Grundfos to implement DDA and DDE SMART Digital Dosing™ pumps across various sites. These pumps handled

biocide application, chlorine dioxide generation, and pH correction. Pulse and float control enabled exact chemical injection to match real-time water system demands.

The outcome

Automated, accurate digital dosing using Grundfos pumps ensured pathogen control, reduced chemical waste, and eliminated downtime. The pump systems ensured reliable water quality, enhanced food safety, and positioned growers for future automation through telemetry-ready connectivity.



Technical insights

SMART Digital Dosing™ pumps delivered ultra-precise dosing with a 1:3000 turndown ratio, enabling control even at low-flow rates. The integrated stepper motor technology ensured accurate pulse dosing.

 [Read the case in detail](#)



3.85 mL/pulse chlorine dioxide injection³



1:3000 turndown ratio for high-precision dosing in varied conditions



AutoFlowAdapt and pulse control for accuracy in fluctuating flow

Accurate, leak-free dosing safeguards water for 1.5 million citizens

Precise digital dosing helped Ningbo’s first modern water treatment plant handle volatile disinfectants safely, supporting reliable long-term performance without risks

The challenge

The Chinese city of Ningbo needed a safe way to dose sodium hypochlorite at its first water treatment plant. The volatile disinfectant has a high pH, and standard dosing pumps in the local market could not avoid leakage problems, creating risk for both plant workers and residents.

The solution

Grundfos DME digital dosing pumps were selected for the critical task of sodium hypochlorite dosing. The pumps offered accurate measurement across dosing-volume variations, a highly integrated control panel for simpler maintenance and

operation, and diaphragm quality that helped avoid typical leakage problems in demanding plant conditions.

The outcome

The Grundfos pumps has been helping the plant provide safe water to 1.5 million citizens in the area. More than 15 years later, the pumps continue to operate 24/7 without faults or leakage problems, helping reduce safety risks for plant workers and residents. The project set a precedent in the region, and now more than 200 water plants in Zhejiang Province are using Grundfos solutions.



Technical insights

The site used Grundfos DME digital dosing pumps, delivering accurate measurement across dosing-volume variations. A highly integrated control panel simplified maintenance and operation, while the high-quality diaphragm helped avoid leakage problems and supported reliable performance in demanding conditions such as extreme humidity and temperatures.

 **Read the case in detail**



Safe, leak-free dosing of a volatile disinfectant⁴



Reliable operation in high temperature and humidity



24/7 operation for over 15 years

⁴ <https://www.grundfos.com/about-us/cases/ningbo-doses-safely-and-accurately-for-1-5-million-citizens>

How smart dosing solves problems before they happen

In water treatment, high water quality isn't just an end goal – it's a daily operational necessity

Whether water is used as part of the final product, for auxiliary systems like cooling towers and boilers, or for discharge back into the environment, maintaining consistency and safety is critical.

And at the heart of that reliability?
Chemical dosing.

Unfortunately, the importance of dosing is still often underestimated. A minor imbalance, a delayed adjustment, or a missed fluctuation can lead to major consequences – from unsafe water to system breakdowns, environmental risks and fines.

A shift in mindset from reactive to proactive

Waiting until a problem occurs and then troubleshooting can be costly and inefficient. Consider the challenges that improper dosing can lead to:

- Corrosion, scaling and fouling, resulting in costly repairs, unplanned downtime, and even shortened lifespan of equipment
- Compromised water quality, leading to non-compliance with environmental regulations and potential fines
- Hazardous working conditions from poorly supervised systems lacking real-time monitoring can endanger worker safety, increasing liability and legal risks



Many traditional systems rely on scheduled inspections and manual adjustments – leaving too much to chance. A proactive approach based on real-time insights is the smarter, safer way forward.

Always informed, always in control

Grundfos SMART Digital Dosing™ pumps are built for proactive optimisation. That means remote access, real-time alerts and full transparency – no matter where the pump is installed.

Did you know?

- Many traditional systems still rely on scheduled inspections and manual adjustments, leaving critical processes vulnerable to delays and downtime.

Colour-coded alarms and clear displays help operators take fast, informed action. Whether your pumps are tucked into a hard-to-reach corner or connected across an entire site, integrated communication options keep you in control.

The first step: Smarter setup, smoother integration

Getting the dosing right starts with correct commissioning. Whether integrated into a SCADA system or operated standalone, even small setup errors can quietly build into major inefficiencies.⁵

Grundfos SMART Digital Dosing™ pumps simplify configuration with the Grundfos GO app, allowing you to set all key parameters from your mobile

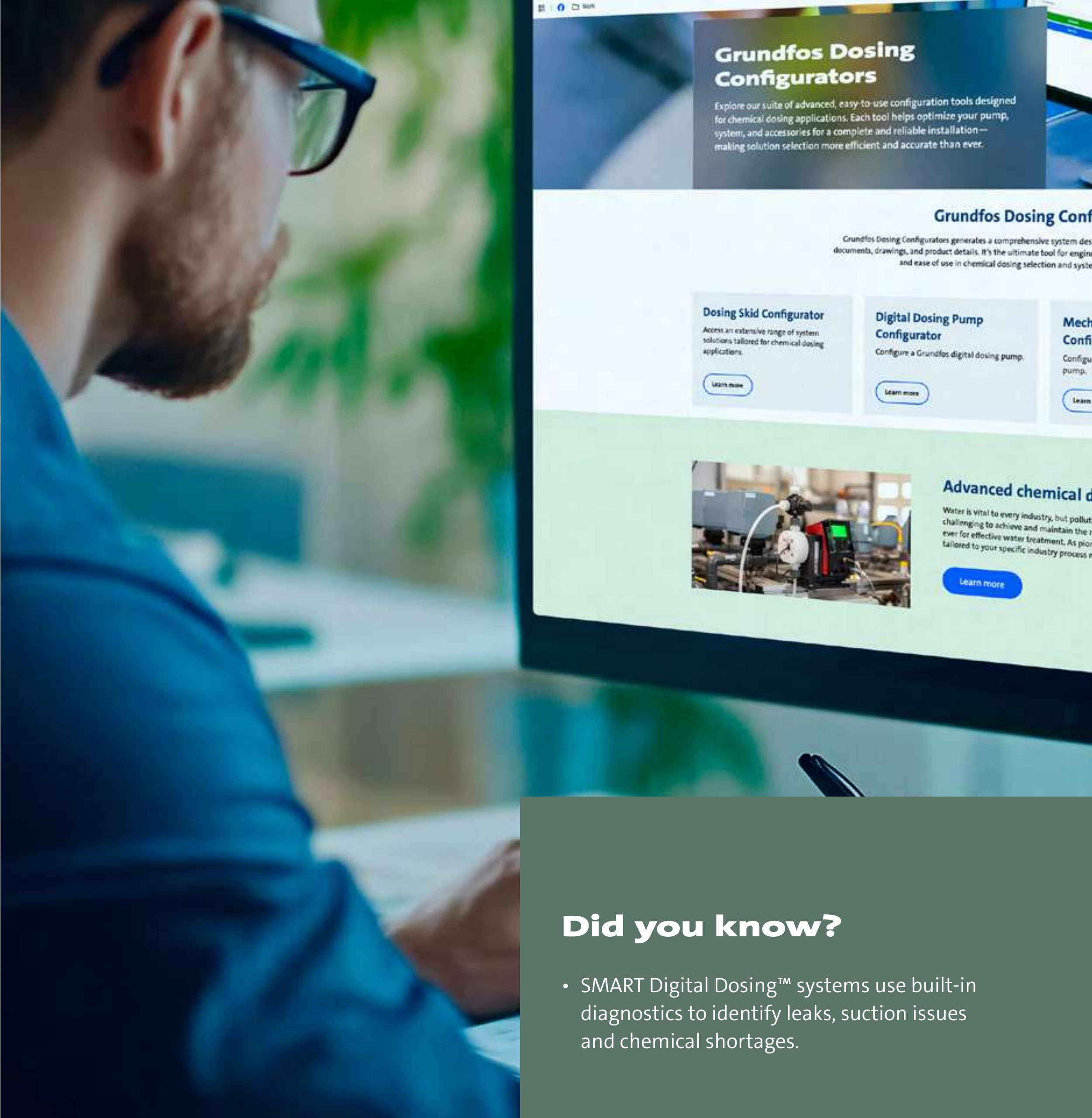
device. Seamless integration with BMS or SCADA is enabled through multiple supported protocols, and configuration tools are available directly from the Grundfos Product Center.

Turning data into decisions

In today's digital landscape, collecting operational and performance data is a given. However, the real challenge is to manage the high volume of data and interpret it in a usable way. Many systems require extra sensors and complex installations just to access performance insights, leaving operators overwhelmed with raw data.

Grundfos SMART Digital Dosing™ systems make it easy by not only collecting data but also interpreting it. With advanced diagnostics and monitoring tools like Flow Control Monitoring (FCM), these pumps provide real-time alerts to potential risks before they escalate, enabling you to make data-based decisions.

- Ensure proactive maintenance with notifications about when your pump requires preventive servicing, including exactly which maintenance kit to order
- Prevent unexpected failures by detecting suction valve leaks, damaged discharge lines, and other inconsistencies before they cause system disruptions
- Improve workplace safety by preventing chemical spills and hazards with automated alerts that help maintain system integrity
- Avoid unexpected chemical shortages with access to consumption data that helps you assess when it's time to reorder



Did you know?

- Grundfos pumps provide colour-coded alarms and real-time alerts so operators are always informed.

Did you know?

- SMART Digital Dosing™ systems use built-in diagnostics to identify leaks, suction issues and chemical shortages.

⁵ <https://www.grundfos.com/solutions/learn/research-and-insights/take-a-proactive-approach-to-chemical-dosing-with-Grundfos>

Smart, digital dosing improves poultry farm operations

Intelligent chemical control enhances biosecurity in hatcheries, reducing bird mortality rates and eliminating manual handling risks

The challenge

In large-scale poultry hatcheries, disinfection using sanitising chemicals is critical. But manual dosing practices posed serious limitations. Overuse of sanitising agents increased chemical exposure hazards for staff, while under-dosing reduced the effectiveness of pathogen control. Variability across dosing points created inconsistent sanitation results, impacting bird health and operational safety.

The solution

Grundfos joined forces with Sonas to create a tailored chemical dosing system capable of supplying a smaller but more exact concentration

and dose of the chemical into the atmosphere. The system was built using the DDA 7.5-16 FCM dosing pump, enhanced with an E-box 500⁶ for Ethernet connectivity.

The outcome

The system enabled fully automated atmospheric disinfection via accurate chemical dosing that could be managed remotely. Over a trial involving 11.2 million birds, farms recorded a 29% average reduction in poultry mortality⁶. The smart dosing system eliminated manual chemical handling, improving safety and reducing wastage.



Technical insights

An intuitive interface, advanced stepper motor, and 1:3000 turn-down ratio enabled ultra-precise, continuous dosing. Built-in Flow Control Measurement (FCM) detected anomalies in real time, safeguarding operations and ensuring consistent chemical delivery with minimal downtime.

 [Read the case in detail](#)

 **29% average mortality reduction** in trial for 11.2 million birds⁶

 Full rollout within **16 weeks**

 **ROI** achieved within a year

⁶ <https://www.grundfos.com/about-us/cases/pump-intelligence-accuracy-and-connectivity-optimises-processes>

Craft brewer in Ohio scales up with precision dosing for new water source

Scaling up without compromising quality, MadTree Brewing relies on precise dosing and proactive adjustments to ensure consistent brewing water quality after switching water source



The challenge

MadTree Brewing needed to scale up production from 25,000 to 180,000 barrels by relocating to a new facility. The switch from well water to city water introduced chloramines, requiring reliable chemical pretreatment in the RO system. To maintain consistent water quality at higher volumes, they needed accurate dosing without added complexity or downtime.

The solution

Grundfos supplied two SMART Digital Dosing™ pumps for chemical injection and a CRN multistage

pump to feed a 100 gpm RO system.⁷ The digital interface gave operators full control, allowing fine-tuned adjustments without relying on external service support.

The outcome

Since installation in 2017, the system has operated without any issues. During early setup, the team was able to fine-tune chemical dosing in-house. Water quality has remained stable, supporting consistent quality as production scaled.

Technical insights

The SMART Digital Dosing™ pumps offer a 1:3000 turndown range and intuitive interface, enabling in-house flow tuning and simple operation. The CRN multistage pump delivers the pressure required for high-volume RO with reliability built in.



Read the case in detail



180,000-barrel production capacity⁷



Two dosing points **fully controlled by DDA**



Zero maintenance issues since 2017 go-live

⁷ <https://www.grundfos.com/about-us/cases/for-a-craft-brewer-focused-on-quality-water-grundfos-solved-for-accuracy-and-reliability>

When one-size-fits-all water treatment costs more than you think

When it comes to water treatment, requirements are never one-size-fits-all. The design of the chemical feed system and the technologies involved depend largely on the type of raw water available, the desired fit-for-purpose outcome, and the specific challenges posed by each application – all of which can vary greatly.

Ensuring efficient and reliable chemical dosing is more than just technology or the types of chemicals needed for dosing at each stage. It requires a comprehensive approach that takes into account multiple aspects, such as installation possibilities, plant layout, chemical logistics, system integration and, most importantly, the safety of operation personnel.

The effects on the environment and equipment lifespan are crucial considerations too.

Why tailored, specific solutions make the difference

Standard products and solutions may get the job done but they often come with compromises, leaving a gap between your exact requirements

and achieving optimal results. Selecting the right solutions and tailoring them to your specific needs is key. Such solutions provide greater control, enhanced safety and optimised performance, ensuring that each aspect of chemical dosing is perfectly suited to the application.

When designing a chemical dosing system, considerations include:

- Safety and compliance – Are your chemicals stored in a separate room due to company safety policies?
- Reliability – Does your process require a duty-standby setup for uninterrupted operation?
- Scalability – Do you anticipate potential capacity expansion in the future?
- Seamless integration – Do you need physical or digital connectivity with existing infrastructure?

Navigating these aspects takes an experienced partner who understands your industry's unique demands – and can deliver solutions tailored to your operation.

This is where Grundfos comes in. With decades of experience, a global support network and over 25,000 chemical dosing solutions sold annually⁸, we have the know-how and capabilities to provide ongoing support and consultation on how to optimise the chemical dosing components in water treatment systems.

A true collaboration every step of the way

From audits and design to installation and ongoing

Did you know?

- Incorrect chemical system setups can go unnoticed for months, silently increasing OPEX and safety risk.

support, Grundfos is with you at every stage. Whether you need to optimise an existing system or design a new one, our experts ensure your system is not only designed to meet your needs but also operates optimally and has an extended lifespan.

We support you with:

- System audits and performance analysis
- Dedicated service teams for expert guidance and troubleshooting
- Specialised training and best practices
- On-the-ground expertise

With Grundfos, you gain more than just a supplier. You gain a strategic partner committed to long-term efficiency, compliance and reliability.

Tailored systems for diverse applications

Truly effective solutions start with understanding the specific challenges in diverse application areas. That's why we work closely with you to design chemical dosing solutions tailored to your needs.



Did you know?

- Grundfos delivers over 25,000 chemical dosing solutions every year.⁸

To meet diverse requirements, we offer a wide range of adaptable solutions, including:

- Customised skid systems – Preassembled and leak-tested dosing units tailored to your plant's specific needs, ensuring accuracy, safety and compliance
- Compact dosing tank stations – Designed for efficient chemical storage and delivery, ideal for facilities with limited space or specific safety requirements

All solutions come equipped with the required elements and accessories to ensure process safety, scalability, and long-term reliability. Additionally,

seamless digital integration enables real-time monitoring, automatic adjustments, and enhanced system control, ensuring optimal performance.

Let's take a behind-the-scenes look at how Grundfos has helped businesses overcome their unique challenges in water treatment and enabled them to take significant strides towards their sustainability and business goals.

Did you know?

- All Grundfos tailored dosing systems support digital integration – for real-time monitoring, automated adjustments and long-term optimisation.

Tailored, always-on dosing application for 250 million meals safe every day

SMART Digital Dosing™ ensures accurate peracetic acid application for global food supply, delivering safety, uptime, and full traceability at scale



The challenge

At one of the world’s largest food producers, maintaining consistent application of volatile disinfectants like peracetic acid (PAA) was critical to microbiological safety. However, manual or unstable dosing introduced risks of overdosing, underdosing, and costly downtime due to gas lock.

The solution

Grundfos worked closely with Safe Foods to deliver a fully integrated SMART Digital Dosing™ system tailored to the demands of high-throughput food production. Real-time monitoring and diagnostics were integrated, enabling real-time monitoring and adjustments as well as operational traceability.

The outcome

The solution brought chemical delivery under complete control, reducing safety risks, eliminating air-related dosing interruptions, and minimising chemical waste. Operators experienced fewer service callouts and more stable sanitisation performance, leading to reduced operational costs. Safe Foods was even able to pass down the cost saving to their customers.

Technical insights

The system used AutoDeaeration and 100% stroke length dosing to maintain gas-free, pulse-free delivery, critical considerations for volatile chemicals like PAA.⁹ Built-in system diagnostics continuously tracked dosing volume, detected gas build-up, and logged performance.



Read the case in detail



Ensured safe production of **250 million meals per day**⁹



Real-time alerts and remote interface **for proactive maintenance**



Fully integrated with quality control logs

⁹ <https://www.grundfos.com/about-us/cases/smart-digital-dosing-keeps-safe-foods-consistent>

Tailored chemical dosing helps Carlsberg brewery reuse 90% of water

At the heart of Carlsberg’s zero water waste ambition is a tailored water reuse plant in Frederica, Denmark where thousands of cubic meters of water is treated daily



The challenge

Carlsberg has set out to halve its water use across its global operations by 2030. To achieve this, it needed to recover and reuse process water for cleaning and auxiliary systems – while ensuring safety and microbiological quality. At its Fredericia facility in Denmark, Carlsberg developed a Total Water Management treatment plant to meet this goal.

The solution

Grundfos worked with Carlsberg and Pantarein to identify the most effective pump and dosing solutions – supplying 95% of the systems. This included SMART Digital Dosing™ pumps for

chlorine dioxide, antiscalants, and membrane protection, along with pre-assembled dosing cabinets featuring integrated controls and remote monitoring. The setup ensured safe, seamless operation from intake to final reuse.

The outcome

The system now recovers and treats 2,000 m³ of process water daily, enabling 90% water reuse and saving over 560 million litres of water annually.¹⁰ Integrated biogas recovery further boosts sustainability with 9.6% energy savings¹⁰, making the system a model for circular water use in global beverage production.

Technical insights

The site uses Grundfos submersible SL pumps for wastewater, NB pumps for biological circulation and CR multistage pumps for high-pressure RO. Pre-assembled dosing cabinets handle all chemical treatment steps, including UF-RO CIP. Supporting systems like Oxiperm Pro, POLYDOS and DID sensors ensure precise disinfection and water quality control.



Read the case in detail



90% process water reuse¹⁰



560 million litres saved annually¹⁰



2,000 m³ water treated per day¹⁰

¹⁰ <https://www.grundfos.com/about-us/cases/carlsberg-taps-into-process-water-reuse-with-onsite-treatment>

Reliable disinfection at scale for drinking water with a customised solution

Tailored dosing systems helped a Czechia waterworks ensure reliable disinfection at their largest plant with a capacity of 200 litres per second



The challenge

VAK Pardubice, a waterworks in Czechia, needed to upgrade its intake water treatment and separate groundwater and surface water to meet regulatory requirements. Previously, the two sources had been treated as one common source, so the site needed a reliable dosing solution that could support safe disinfection in the upgraded treatment setup.

The solution

Building on a previous successful collaboration, Grundfos worked with Envi-Pur to deliver a combined solution of complete Dosing Skid Systems and ceramic membrane filtration. Close collaboration with the customer and

designers helped define the right setup, resulting in nine customised dosing skids tailored by pump size and material specification to suit the application.

The outcome

The solution met the site’s disinfection needs with a safe, reliable and adaptable dosing setup. It gave the customer a single-source solution with fast delivery, safer station design for operators, and accurate dosing to support efficient chemical use. Since operations began in 2020, the installation has run without significant issues¹¹, validating the technical choice for a plant supplying drinking water to approximately 150,000 people.

Technical insights

The dosing skid solution combines pumps, controls, piping and valves in a compact system designed to meter and inject chemicals accurately into the treatment process. In this project, Grundfos supplied nine dosing skids, each customised by pump size or material specification to match site requirements. Dosing Skid Systems can incorporate SMART Digital Dosing™ pumps with stepper motor technology, offering up to 1:3000 flow turndown for precise chemical dosing.

 **Read the case in detail**



9 customised dosing skids supplied¹¹



No maintenance issues since 2020



Plant providing safe drinking water for approx. **150,000 people**

¹¹ <https://www.grundfos.com/about-us/cases/grundfos-and-envi-pur-work-together-to-deliver-price-competitive-customised-dosing-skids>

Our portfolio offers a range of products, solutions, and services to comprehensively support our customers

Dosing Pumps

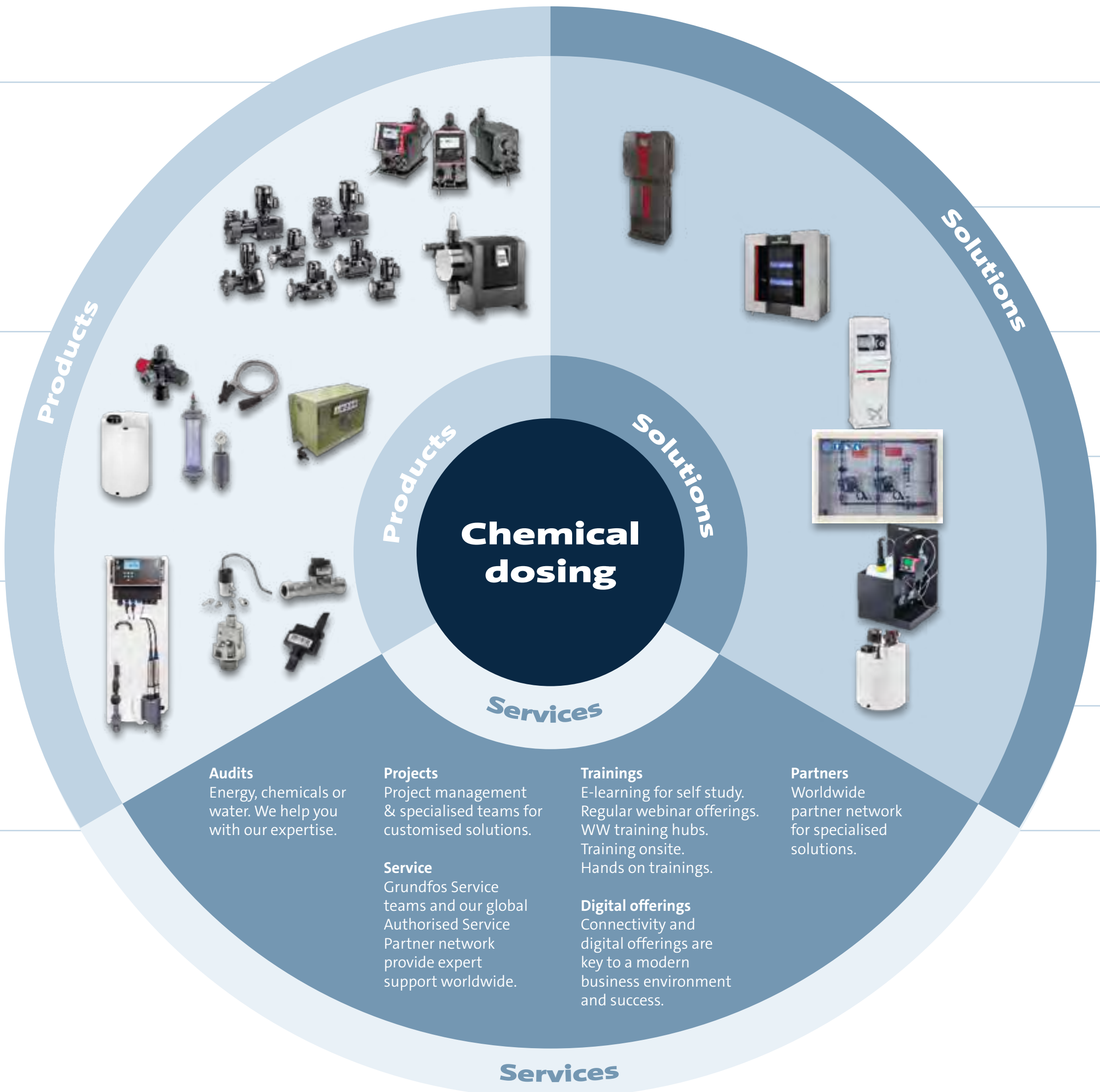
SMART Digital dosing pumps: DDA / DDC / DDE convinces you with modularity, simplicity and the flow intelligence. The Mechanical dosing pump range is a series of extremely strong pumps for applications requiring reliable dosing and high-pressure capabilities.

Accessories / Spares

Full portfolio of accessories and spares for safe operation covering every requirement when dosing with Grundfos pumps. Including a variety of valves, lances, calibration columns, pulsation dampeners, cables, hoses, tanks as well as safety features like dosing cabinets.

Measurement / Sensors

A complete range of pre-assembled systems intended for accurate and reliable water quality monitoring and direct sensors for measurement of critical parameters.



Chlorine Dioxide

Oxiperm Pro system for onsite generation and dosing of Chlorine Dioxide (ClO₂). Generates a ClO₂ solution from diluted NaClO₂, HCl and water.

Electrochlorination

Selcoperm units for onsite generation of hypochlorite (NaClO) from common salt and water using electricity.

Chlorine gas

Systems allowing precise and secure dosing of gaseous chlorine (Cl₂), covering all equipment between the chlorine gas container and the water line to be treated.

Dosing skids

High class plug and play dosing skids available as pre-configured leakage tested units or fully customised solutions according to your specifications on demand.

Mobile dosing systems

Compact dosing station for use with small canisters covering all equipment from chemical chemical till injection unit.

Dosing tank stations

Pre-assembled chemical storage tank with mounted dosing pump available in many variants according to your needs.

Grundfos is one of the world's leading suppliers of solutions across the full range of pump applications – all the way from water supply to district heating. We think beyond the pump, and our goal is to provide you with intelligent solutions that achieve a higher level of performance in your systems. This approach has made us a preferred partner for contractors, consulting engineers and installers looking to build the most sustainable and efficient buildings and systems in the world.



Click here to learn more
about chemical dosing

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Possibility in every drop