Complete Water Treatment Solutions

ProMinent®

Your reliable partner for solutions in water life cycle management

From the invention of the first electric solenoid metering pump, to now offering a full range of chemical metering and disinfection systems, ProMinent remains focused on advancing our offerings to stay at the forefront of growing market challenges. This ensures our customers receive reliable, durable, low-maintenance, and economical solutions that meets the needs of specific applications for any situation.

Our products are used across a wide range of markets and industries, and you can rely on the experience and know-how of our experts to find the most effective and efficient solution that achieves your goals. Examples of our application expertise in specific markets include:

Food & Beverage I Engineered chemical feed packages Disinfection systems for process water PH neutralization solutions for wastewater Retort water recycling systems Monitoring and control of process water variables

Municipal Water / Wastewater

- Potable water:
- Pre-treatment during oxidation, coagulation and flocculation, sedimentation, clarification, and conditioning
- Post-treatment during storage
- Disinfection during distribution
- Wastewater:
- Mechanical screening / clarification
- Biological aeration applications
- Advanced cleaning for PFAS removal
- Sludge drying, dewatering, thickening
- Process water treatment/reuse

Aquatics (Pools/Resorts/Zoos)

- Water analysis / control and complete control of mechanical room
- Secondary and supplemental MP and LP UV disinfection
- Precision chemical dosing and dry feed
- Oxidation and disinfection with ozone, chlorine dioxide, chlorine generation

Chemical and Chem Vendors

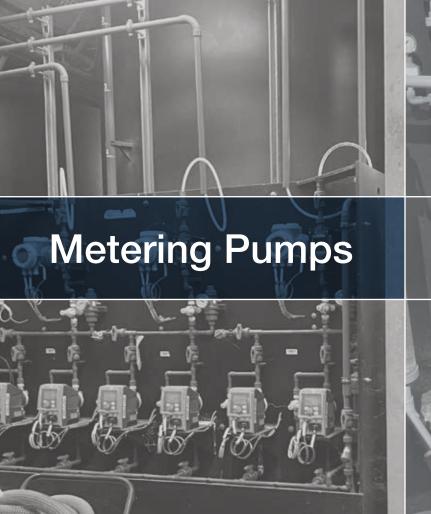
- Online chemical inventory management with radar level sensors
- Metering of solid powders or granules
- Automated tank filling utilizing metering pump with pre-selected volume settings
- Many pump material options available to handle most any chemical
- Accurate monitoring options that reduce water flow needs

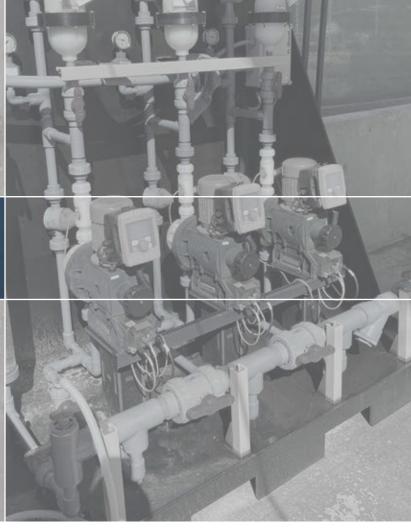
General Industry / Manufacturing / Energy Generation

- Full metering control for coolant circuits in cooling towers
- Adjust wastewater pH through chemical metering or adding flocculants
- Monitoring electroplating baths with sensor technologies
- Bulk powder feed of solids

Mining / Oil & Gas

- Accurate metering of frothers and collecting agents during flotation process
- Separation of liquids and solids with polymer metering systems
- High pressure metering pumps for down hole operations
- Pumps that meet Explosion Proof
 Class I, Div 1, Groups B, C, & D classifications







Mechanical Diaphragm

EXTRONIC / Makro

For safe metering of liquid media in hazardous areas, these pumps are hermetically sealed units designed with durable diaphragms, chemical-resistant materials, along with a self bleeding dosing head (EXTRONIC) suitable for off gassing media.

Built for tough applications in oil/gas production, refineries, chemical, pharmaceutical, and food production.

Explosion proof option available

Capacity Ranges from:

0.05 - 554 GPH (0.19 - 2,100 l/h)Pressures up to 363 psi (25 bar)



Hydraulic Diaphragm

Evolution / HYDRO / ORLITA / ProMus

Hydraulic metering pumps are ideal for situations that require high pressuresor low flow as they use the hydraulic fluid as a motive force for the diaphragm. Additionally, hydraulic control is very precise and requires minimal maintenance due to the durable multilayer diaphragms.

Typical uses include oil/gas production, refineries, chemical, petrochemical, pharmaceutical, and food industries.

API 675 versions available

Capacity Ranges from:

0.003 - 2,200 GPH (0.01 - 8,325 l/h) Pressures up to 43,511 psi (3,000 bar)



Plunger

Sigma / Makro / ORLITA

The heart of the liquid end in a plunger metering pump is a high-resistance plunger made from coated stainless steel. Metering reproducibility is better than ± 0.5 % within the 10 – 100% stroke length range.

Used in oil and gas production, refineries, chemical, petrochemical, and as bottling pumps in the packaging industry.

Capacity Ranges from:

0.53 - 4,562 GPH (2 - 17,268 l/h) Pressures up to 8,700 psi (600 bar)

Explosion proof and API 675 versions avaiable





Solenoid-driven diaphragm pumps have

only one moving part, thus the drive is

virtually wear-free. Additionally, these

pumps require no lubricated bearings

or shafts which keeps maintenance and

repair costs minimal. Self bleeding option

Solenoid-Driven

Concept / beta / gamma





Motor-Driven Sigma Basic / Sigma X

Motor-driven diaphragm pumps offer extremely accurate metering even under fluctuating pressure conditions. This results in reduced chemical consumption and precise process control.

Typical uses include general metering of chemicals, additives, disinfectants, flocculants, pharmaceutical, cosmetics, and food production

Hygienic SS design also available

Capacity Ranges from:

5.3 - 275 GPH (20.1 - 1,040 l/h) Pressures up to 232 psi (16 bar)





Peristaltic

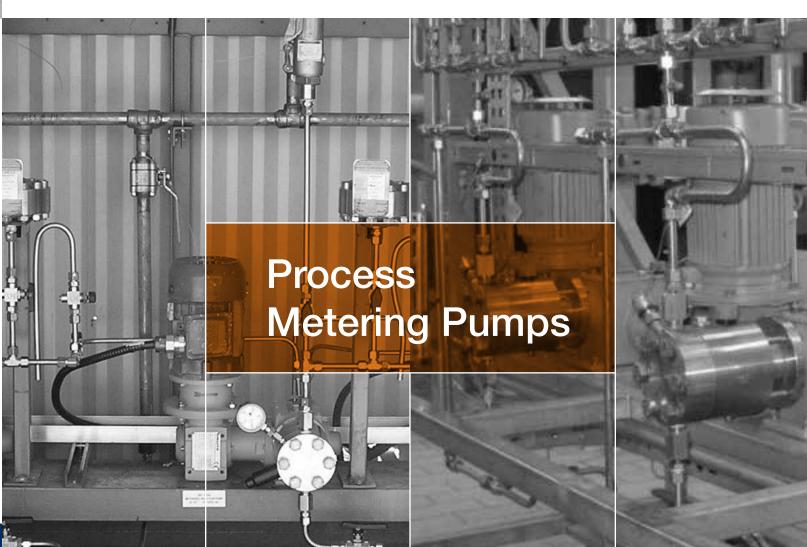
DULCOFLEX

Peristaltic pumps operate on the concept of a roller compressing a hose to "push" media through at a consistent flow. ProMinent utilizes a hose and roller design, which allows higher pressures and a longer service life than comparable pumps that utilize tubes and shoes. Adaptable to a wide range of applications.

Typical uses include gaseous, viscous, shear-sensitive and particle-containing media, along with polymers, disinfectants, additives, and biocides.

Capacity Ranges from:

0.063 GPD - 19.2K GPH (10 ml/h - 72.7 K l/h)Pressures up to 232 psi (16 bar)



Typical uses include general metering of chemicals, disinfectants, corrosion

inhibitors, biocides, flocculants, and additives.

also available.

Capacity Ranges from:

Up to 20.74 GPH (78.5 I/h) Pressures up to 363 psi (25 bar)



DULCOMETER diaLog X

A multi-parameter water treatment controller featuring a flexible platform that can be configured to meet a wide range of customer applications. This powerful controller is expandable to handle extensive monitoring and control requirements with a simple interface that can be viewed and controlled remotely.

Inputs: 8-digital Outputs: 4-digital, 6-relays Comm: WiFi, Ethernet, Modbus RTU Expandable with two satellite controllers

DULCOMETER diaLog DACb

A complete controller for water analysis in

a variety of industries with functionalities

for processing of interference variables

and switchover of control parameters.

Inputs: up to 3-channels, 7-digital

Other: data logging optional

Outputs: 3-analog, 4-digital, 3-alarm

Comm Options: Ethernet, Modbus RTU



AEGIS II

A multi-parameter water treatment controller for cooling tower and boiler applications. Optional measurement of pH, ORP, CI, temp, electrolytic conductivity, corrosion plus many other parameters are available. Includes a simple communication interface that can be viewed and controlled remotely.

Inputs: 1-analog, 2-serial, 8-digital Outputs: 4-digital, 5-relays Comm: WiFi, Ethernet Other: data logging, up to 6-analog I/O optional, Modbus RTU optional



AEGIS S

An easy-to-use water treatment controller for evaporative cooling systems. It measures conductivity and controls metering of biocides and corrosion inhibitor, thus preventing biological growth. Intuitive user interface, touch display and live view of the cooling circuit.

Inputs: 5-digital Outputs: 2-analog, 6-relays Comm Options: WiFi, Ethernet, Modbus RTU Other: data export through USB



DCM Control Package

For remote monitoring and controlling water chemistry and processes in pools. spas, hotels, motels, and condos. Two models available with a variety of options depending on system. Both include data logging.

Options for: salt / stabilized / non-stabilized water Monitoring capabilities: pH, ORP, Gold ORP, temperature, free chlorine, total chlorine, combined chlorine, CIO, bromine, ppm, conductivity



DULCOMETER D1Cb/D1Cc

Provides precise monitoring or controlling of process variables. The control unit is equipped for key measured variables in basic applications of water treatment.

Inputs: 1-channel, 1-digital Outputs: 1-analog, 2-digital, 1-alarm Comm Options: none



DULCOMETER Compact

Provides precise measurement and control of pH or ORP process variables. Comes standard with pulse relay for pump control, configurable analog output, and configurable power relay.

Inputs: 1-channel, 1-digital Outputs: 1-analog, 1-digital, 1-alarm Comm Options: none



An all-in-one system for monitoring the absence of free chlorine to protect processes in the treatment of drinking, service and process water, as well as ultrapure water in industrial processes.



DULCOPOOL Pro Touch

A multi-parameter controller ideal for individual swimming pools. It enables all types of chlorine and other important disinfection parameters to be measured. Up to five parameters can be monitored.

Inputs: 4-digital, 6-analog Outputs: 6-relays, 4-analog Comm: WiFi, Ethernet, Modbus RTU Other: data logging, touch screen



DULCONNEX

DULCONNEX is a web-based IIoT platform for digital fluid management. The web application provides easy access to all relevant plant, process and inventory level data on any connected device for monitoring and controlling connected components such as pumps, measurement sensors, liquid levels, etc.

0.01 – 200 ppm (higher upon request)

0.01 - 10 ppm

-1,500 - +1,500 mV

0.01 µS/cm - 20 mS/cm

200 µS/cm - 2,000 mS/cm

0.01 - 10 ppm

0.02 - 2 ppm

0.02 - 2,000 ppm

0.01 - 10 ppm

0.05 - 100 ppm

0.2 - 2,000 ppm

0 - 14

ProMinent manufacturers its own sensors to ensure a high quality and availability. Our product family consists of application-based sensors for precision measuring and flexibility in connecting to various devices such as

■ Total Chlorine: 0.01 - 20 ppm

DULCOTEST Sensors

■ pH Sensors:

■ Free Chlorine:

■ Oxidation (ORP): ■ Chlorine Dioxide:

■ Total Available Chlorine:

pumps, controllers or PLCs.

Ozone:

Conductivity:

Inductive Conductivity:

■ Peracetic Acid:

Bromine:

Sensor Technology

easuring Technology

Fluoride:

■ Hydrogen Peroxide:

■ Dissolved Oxygen:

■ Chlorite:

■ Temperature:

■ Turbidity:

Conductivity/Temp/Flow (CTFs):

■ Fluorescence (3rd party): ■ Submersible Sensor Holder: 0.02 - 2 ppm32 - 212 °F (0 - 100 °C)

0.1 - 20 ppm

0 - 1,000 NTU 10,000 µS / 150°F (65°C) / 1GPM

0 - 200 ppb

Light Duty / Heavy Duty



Liquid Level Radar Sensor

DULCOLEVEL

An easy-to-use radar sensor that provides continuous, accurate and reliable measurements of chemical levels within tanks. containers or IBC totes.



Portable Disinfectant Measurement

DT1B / DT3B H₂O₂ / DT4B

A portable way to measure nearly all disinfectants and pH values based on the photometric principle. Ideal for spot testing and as a reference check for calibrating electrochemical sensors.

BAMa Modular Bypass Sensor Housing

Accommodates ProMinent sensors in various configurations that offers:

- Low water flow requirements for savings when water is not returned back to the process
- Easy cleaning and maintenance
- Good particle mobility for water which contains solids
- Designs for temperatures up to 158°F (70°C) and pressures up to 101.5 psi (7 bar)





DULCOMETER AIR GUARD

A new solution providing a continuous measurement of trichloramine in the air for public and commercial swimming pools. Offers real-time level measurements so that precautions can be taken to increase the safety for swimmers.

SlimFLEX 5

A controller that sets the standard for monitoring and metering of cooling tower and boiler applications. Built-in WiFi Hotspot and enhanced browser views for easy programming.

Inputs: 6-digital, 1-serial, 4-analog Outputs: 5-relays Comm: WiFi, Ethernet, data logging

Other: no Modbus capability Other: data logging optional



DULCOMETER DMTa

Compact 2-wire-transmitter with microprocessor technology. Reliable monitoring for pH, redox, chlorine, conductive conductivity, and temperature applications.

Inputs: 1-analog limited Outputs: 4 – 20 mA (loop power) Comm Options: Profibus Other: monitoring only



DULCOZERO FCL

the membranes in reverse osmosis wastewater or for the protection of

Ultraviolet (UV) Systems

UV radiation is a safe, chemical-free and reliable method for disinfection in water treatment. It attacks the vital DNA of the germs, which then lose their reproduction capability and are destroyed. UV is also used to remove oxidants such as ozone, chlorine and chlorine dioxide.



DULCODES LP TL

Able to disinfect up to 9,510 GPH (36 m³/h) of sugar syrup. Hygienic system design for elimination of spores, yeasts and mold fungus.



DULCODES LP

Utilizes patented VARIO-Flux high-output lamps that can be quickly and precisely dimmed with flow rates up to 138,000 GPH (406 m³/h).



DULCODES LP-PE

Ideal for saline sea water or thermal water, made of highly UV-resistant plastic, with flow rates up to 133,000 GPH (505 m³/h).



DULCODES LP F&B

Utilizes a stainless steel hygienic design that meets international standards for drinking water and Food & Beverage applications, with flow rates up to 44,000 GPH (168 m³/h).



DULCODES A

For the breaking down of combined chlorine in swimming pool water or elimination of chlorine, chlorine dioxide and ozone with flow rates up to 213,000 GPH (809 m³/h).

Ozone Systems

Chlorine

smelling compounds.

Dioxide Systems Our systems produce a chlorine-free chlorine dioxide that disinfects regardless of the pH. They have a very good

sustained-release effect and remains

active in the pipes from many hours

to several days. It also does not react

with ammonia and will not create strong

As the most powerful oxidizing agent that can be used in water treatment, ozone is ideal for removing hazardous substances, dyes, odors and flavor additives, resulting in fewer environmentally harmful byproducts than with other comparable oxidants and disinfectants.



OZONFILT Compact OMVb

Ideal for the beverage industry, this is a complete, ready-to-use solution for the generation and metering of ozone, with a capacity of 0.04 - 0.15 lb/h (20 - 70 g/h).



OZONFILT OZVb

A powerful and compact complete solution ideal for efficient ozone generation from compressed air with ozone capacity of 0.04 – 0.15 lb/h (20 - 70 g/h).



OZONFILT OZMa

A demand-driven, self-optimizing pressure swing dryer reduces the consumption of compressed air thus generating ozone even with a high level of ambient air humidity. Capacity from 0.15 - 0.93 lb/h (70 - 420 g/h).





Bello Zon CDKd

to 16M GPH (60,000 m³/h) of water with 0.2 ppm CIO₂.



Bello Zon CDLb H₂SO₄

Produces an extremely low-chloride chlorine dioxide solution suited for stainless steel materials.



Up to 26.5 lb/h (12K kg/h). Can treat up



Rapid **Diffusion Mixer**

An effective way for rapidly mixing and dispersion of chemicals and disinfectants.





These disinfection systems allow you to produce chlorine onsite, in your own facility, which avoids the need to handle and store potentially dangerous chemical.



Bello Zon CDLb

system available.

0.01 - 0.26 lb/h (120 g/h). Can treat

up to 159,000 GPH (600 m³/h) of water

with 0.2 ppm ClO₂. Multi-point injection





CHLORINSITU IIa / XL

This economical technique uses sodium chloride (ordinary salt) to produce a sodium hypochlorite solution. Two systems available, one with capacity of up to 5.5 lb (2.5 kg) and one up to 100 lb (45 kg) of chlorine per hour.



Up to 4.41 lb/h (2,000 g/h). Can treat

up to 2.6M GPH (10,000 m³/h) of water

DULCOLYSE

Bello Zon CDVd

with 0.2 ppm CIO₂.

This technique uses sodium chloride to produce a hypochlorous acid solution which is a highly effective disinfectant DULCOLYT 400, with lower chlorate content ideal for Food & Beverage industry.



ProMix-SMS

Ideal for chemicals such as sodium hypochlorite, antiscalants, and chloramination products.



For Liquids

Complete pre-assembled "readyfor-use" chemical metering systems make sense as all components come from one supplier, no interface issues and no on site assembly. Available as pre-engineered for quick lead times or custom designed for your application and space, even if it is installed outside exposed to the elements.



Pre-Engineered Single/Dual Pump Skids

ProMinent has designed a variety of systems that suit common applications. This cuts down greatly on costs and delivery times. Utilize our extensive Systems Library for currently available options.



Custom Designs

Let our experts design a system tailored to meet your goals no matter the application, standards or environment.



Control & Monitoring Packages

Complete modules are available for easy integration. They can be designed for measuring most any variable in water treatment applications, with capabilities for remote access.



ProSIP



Pump packages developed to provide flexible options for floor or wall mounting our solenoid, motor or peristatic metering pumps.



For Polymers

To eliminate solids from liquids requires the use of liquid or powder polymers. Our polymer preparation and metering systems provide efficient technologies to meet stringent requirements.



ULTROMAT ULFa / ULDa / ULPa / ULFb

A turn-key automatic feed system for batch-wise preparation and metering of polymer solutions from powdered or liquid chemicals.



PolyRex

A turn-key automatic feed system for batch-wise preparation and metering of polymer solutions from powdered or liquid chemicals.



ProMix H

A compact, efficient, low maintenance system that utilizes a hydraulic mixing method with no moving parts to deliver a homogenous polymer solution. Designed for low molecular-weight poltmers with flows up to 600 GPH (2,271 I/h).



ProMix S / M / L

A pre-engineered system with a unique 3-zone design resulting in superior polymer activation and lowered chemical consumption.



For Solids

Chemical

Storage

For the metering and treating of solids, including cost-effective solutions for materials with weight fluctuations or problems with bridging.



Bulk Bag Emptying

For use with both disposable and returnable super sacks weighing up to 2,200 lbs (1,000 kg).



Volumetric Feeder

Volumetric multi-screw feeders for metering powders and granulates up to 7,600 ft³/h (215 m³/h).



Powdered Activated Carbon (PAC) Metering

System consisting of a sack emptying unit, storage tank and screw feeder for accurate delivery of PAC.



ProCal SV

Granular Calcium Hypochlorite feeder generates a dilute solution as a chlorine source for swimming pools.





CO, Controller

Utilizes CO₂ in the control of pH levels in pools. Does not contribute to a TDS increase and no mineral acid fumes.



Chemical Storage Tanks

Sizes available from 15 - 300 gal (60 - 1,135 liters) and includes support for mounting ProMinent pumps, stirrers or radar sensors.



Acid Gas Scrubber

A proprietary device that allows for direct venting of an acid tank located inside a mechanical room. It eliminates the need for costly venting via fans or secondary water tank type fume traps.



A complete metering station for

chemical totes that utilizes a 53 gal (200 liters) intermediate tank to ensure no interruptions during tote changes.



ProMinent®



IN-HOUSE CAPABILITIES

Custom System Design and Engineering

Custom Sensor Panel Fabrication and Testing

Standard System Designs for Quick Delivery

Component and System Manufacturing

AFTERMARKET SUPPORT

Large Inventory of Parts and Components

Service Support: Phone, On-site and/or Start-Up

Maintenance, Repair and Troubleshooting of Equipment

Training: Certified Service Partner, Operational, Maintenance, General Product

PROVEN SOLUTIONS THAT MEET YOUR NEEDS

ProMinent Fluid Controls, offers the highest quality metering pumps, disinfection systems, polymer preparation systems, metering systems for solids, instrumentation, and custom designed systems. The Group is headquartered in Heidelberg, Germany with more than 2,800 employees throughout 50 sales and service locations and 11 production sites. With over 60 years of experience, our expertise and wide range of products positions us as your reliable solution partner for the treatment of water.

To learn how we can help solve your water treatment challenges, contact us at:

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