

Where hygiene is a priority.

Motor-driven metering pumps
Sigma in hygienic design.

ProMinent®

Continuous use in the food and beverage industry.



ProMinent's **new Sigma family in hygienic design** consists of motor-driven metering pumps, designed specifically for the requirements of the food and beverage industry.

The product family is based on our hugely popular and proven Sigma product range, is fitted with new stainless steel dosing heads and can therefore be simply and flexibly used in hygienically sensitive applications.

The Sigma in hygienic design has an impressively simple construction and is therefore very easy to clean.

As part of our solution for digital fluid management DULCONNEX, the new Sigma motor-driven metering pump has an integrated CANopen interface. Alongside this interface, the pump can also be connected to a process control system via the integrated PROFIBUS®. The Sigma in hygienic design therefore allows you to monitor, analyse and optimise metering processes with ease.

Sigma in hygienic design,
easy to operate and clean.

Illuminated LCD

The large high-resolution LCD displays key parameters.

Reliable and durable motor drive

Robust and precise motor drive for metering between 25 and 1,000 l/h of liquid media at a back pressure of 10 to 4 bar.



Developed to meet the requirements of the food and beverage industry

Smooth surfaces optimised in terms of dead space for simple cleaning and with a hydraulic tri-clamp connector. Surface roughness: $Ra \leq 0.8 \mu m$.

Simple operation coupled with great convenience

Intuitive concept with click wheel and 4 additional operating keys on a removable operating panel.

Diaphragm rupture warning system

A PTFE multi-layer diaphragm with diaphragm rupture control offers additional process reliability. Electric diaphragm rupture control is optional.

DULCONNEX

Integrated PROFIBUS® and CANopen interfaces allow the pump to be connected to process management systems.

Just as reliable and flexible as before,
but now with all the features needed by the food
and beverage industry: the Sigma in hygienic design.



Easy to clean

The new CIP-capable Sigma in hygienic design is easy, quick and thorough to clean. The fast cleaning processes translate into cost savings in the long term, minimal downtimes coupled with optimised system availability and minimised risks in the production of foodstuffs.



Outstanding process reliability

As a motor-driven metering pump with integrated control and patented multi-layer safety diaphragm, the Sigma in hygienic design delivers excellent process reliability. In the event of an accident, the feed chemical neither enters the pump drive nor escapes to the outside. Should the diaphragm rupture, a simple contact is mechanically triggered by the multi-layer diaphragm.



Excellent operating convenience

A large illuminated LCD and an LED display for various operating statuses makes the pump very convenient to operate.



More connectivity

The new Sigma family in hygienic design is ready for Industry 4.0. It can be connected to process control systems via the integrated PROFIBUS® and CANopen interfaces. Operating statuses are simply remotely transmitted via an additional output or relay module.



A wealth of possible applications

The Sigma in hygienic design product family covers the capacity range from 25 to 1,000 l/h. It can therefore be flexibly used to meter aqueous foods or food additives in the food and beverage industry. It meters dyes, aromas, flavouring substances and additives, but also enzymes, stabilisers, liquid yeasts and much more – it's a real all-rounder.



Advice

As with all ProMinent products, we can provide comprehensive advice for the Sigma in hygienic design before you make a purchase. This gives you peace of mind that the pump is perfectly matched to your process.

Your product is individually configured and provided with tri-clamp connectors as standard. So there is nothing to stop you from achieving a smooth connection to your process.



Service

ProMinent experts are available after your purchase too. Whether you need spare parts, want to learn more about the technology in seminars or if you experience a problem and need some technical support, our Customer Services provide a range of individual services for you.

Customer Services - Service **unlimited**.

Expertise

The ProMinent Group of companies has a global presence. ProMinent develops and manufactures components and systems for metering liquids and solutions for water treatment and water disinfection. The Sigma in hygienic design is produced at the ProMinent head office in Heidelberg, Germany. ProMinent is one of the world's leading manufacturers of metering pumps. With over 60 years of experience in the development and manufacturing of metering pumps, we have access to a wealth of experience and technical knowledge in the various potential uses in a huge range of different industries. You will find specialists in your application at each of our subsidiaries. They will be happy to advise you.

ProMinent Group

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