

ProMinent®

METERING PUMPS

Metering pumps are used wherever fluids must be dosed with the highest possible grade of accuracy with a defined volume and within a defined time period. ProMinent has worked in this business for more than 40 years and is a global leader. Offering the largest range of metering pumps worldwide, ProMinent meets, then exceeds your requirements.



Functioning

Metering Pumps (Reciprocating positive displacement pumps) pull in a defined fluid volume with the back-stroke of the displacer and discharge it into the metering line with the pressure stroke. The metering capacity can be regulated by adjusting the stroke volume and the metering strokes per time unit. Thus, a constantly exact metering is achieved and remains constant even at varying backpressures.

Microprocessor Technology

Back in 1968, ProMinent presented one of the first electronically operated solenoid driven metering pumps. ProMinent utilizes microprocessor technology is used on a large scale of its metering pumps - optimally adjusted to each application. Besides multi-functional control methods, microprocessor technology grants increased operational safety. This is ensured by multiple monitoring functions. For instance, the amount of chemicals used in water treatment can be reduced to the absolutely necessary minimum - an important aspect for environmental protection. The same is applicable for the areas of process technology.

The integration of a metering pump into a fully automatic process requires interfaces for the processing of existent control signals. Only microprocessor technology allows the use of all standard signals, e.g. contact and analog signals for pump control without any additional signal processing or transforming devices.

Two-Year-Warranty for Reliable Technology

Meanwhile, more than one million ProMinent metering pumps are used in the world today - even under most difficult conditions. Taking proven construction principles as a basis, we have leveled off an a very high quality and precision standatd. This allows us to grant a two-year warranty on each ProMinent® metering pump drive.

Large Product Range

ProMinent offers electronically operated solenoid driven metering pumps, electronically operated motor driven metering pumps, as well as pneumatically operated metering pumps. The capacity range starts at a few mL/hr e.g. for laboratories and goes up to 10,570 gph (40,000

L/h) for the use in process industries. There are different technologies used to feed the medium. According to the chem.-feed-technology used, metering pumps can be categorized as follows:

- Mechanically actuated diaphragm metering pumps
- Hydraulically actuated diaphragm metering pumps
- Plunger metering pumps
- Peristaltic pumps

Another way of categorizing metering pumps is according to the pump drive:

- Solenoid-driven metering pumps
- Motor-driven metering pumps
- Air operated metering pumps