

# Water Treatment and Industrial Applications

PRODUCTS OVERVIEW



innovation > technology > future

**seko** is an International Group, developing, manufacturing and delivering its products in more than 50 countries, through its 18 subsidiaries and an extended network of distributors, agents and authorized dealers.

**seko** is a leading manufacturer of dosing pumps and dosing systems with more than 40 years experience.

This long activity allowed **seko** to acquire a wide experience in several different applications and to confirm its international success in many industrial fields through the supply of reliable solutions for the dosing, injection and transfer of liquids.

## Water treatment & Industrial applications

Dosing systems for the water treatment includes solenoid metering pumps, motor driven mechanical pumps, measure and control instruments and a wide range of accessories.

Our long experience has led us to develop specific products for the different applications on the various markets of which both seko and its customers have been leaders for years.

Dosing systems for swimming pools, pumps and integrated measuring instruments and pre-assembled panels for measuring and monitoring the chemical and physical properties of water are simply a few examples of the development of products based on the specific needs of the market and of customers.

The design of metering units with tanks, stirrers, metering pumps and their accessories, together with systems for the automatic polyelectrolite preparation complete the range of products based increasingly on an approach oriented on Customers needs



# Solenoid dosing Metering Pumps

The high frequency of dosing pulses and the full chemical compatibility of the components make them extremely accurate and versatile.



## Foot mounting solenoid driven dosing pumps Maxima Series

The Maxima Series are foot mounting solenoid driven dosing pumps with new revolutionary electronic stroke length regulation. This revolutionary electronic stroke length regulation allows to have a careful dosage, setting it is easy thanks an intuitive interface.

- Capacity range : from 0,4 to 54 L/h, up to 20 bar
- Liquid end : PVDF, PTFE, EPDM, FPM and Ceramic
- Analogue and Digital range with constant or proportional dosage



## Solenoid driven dosing pump Tekna Evo Series

The innovative Tekna EVO series electronic metering pumps is the result of working closely with our world-wide customers. These multifunctional metering pumps maintain the high reliability that is synonymous with SEKO quality.

- Capacity range : 0,4 to 54 L/h, up to 20 bar
- Liquid end : PVDF, PTFE, EPDM, FPM and Ceramic
- Analogue and Digital range with constant or proportional dosage



## Solenoid dosing pump Kompact Series

Kompact is a simple solenoid dosing pump, operating with a micro-processor to manage the dosing. Its external enclosure has an IP65, which guarantees a protection versus splashing water and aggressive environments.

- Capacity range : 5 L/h at 8 bar, 3 L/h at 10 bar
- Liquid end : PVDF, PTFE, EPDM, FPM and Ceramic
- Analogue and Digital range with constant or proportional dosage



## Solenoid dosing pump Invikta Series

It is a simple yet reliable series of micro-processor based solenoid dosing pumps. Ideal applications are: OEMs, Swimming Pools, Car Wash, Cooling Towers, RO Systems and many other applications.

- Capacity range : 2 L/h at 7 bar, 5 L/h at 5 bar
- Liquid end : PVC, PTFE, EPDM, FPM and Ceramic

# Motor Driven Metering Pumps

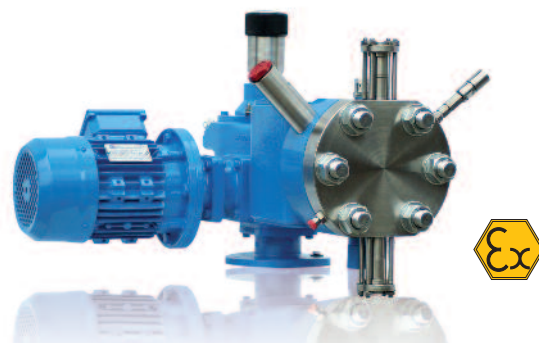
The range of our motor driven pumps features a high level of reliability and accuracy. Tough and plain, they guarantee excellent quality in time



## Plunger piston and mechanical diaphragm metering pumps Spring Series

Three sizes of mechanism and a wide selection of models with different performances allow the user to find the appropriate solution for almost any application.

- Capacity range : up to 1000 L/h, up to 20 bar
- Liquid end : AISI 316L, PVC and PP



## Plunger and Double Diaphragm pumps Nexa Series

Plunger and Double Diaphragm pumps with fully engaged mechanism for heavy duty. The experience cumulated with SEKO Exacta series pumps in the heavy duty applications has been utilized for the industrialized design of this series. High flexibility in the pump configuration and easy maintenance allow to customize the pump also after the installation.

- Capacity range : up to 2779 L/h, up to 200 bar
- Liquid end : AISI 316L, PP, PVDF and PVC
- API 675 Standards – ATEX marking



## Automatic polyelectrolyte preparation system continuous-flow in stainless steel and polypropylene Polycendos

The preparer is a device designed for automatic continuous flow preparation of a polyelectrolyte solution, starting from the polyelectrolyte in powder form and water.

- Flow capacity : from 550 to 3.000 L/h
- Volume : from 700 to 3400 lts.



## Industrial Mixers

Seko, provides a wide range of mixers for any application in water treatment and industrial processes, helping the customer specific design of the same, for example mixing chamber, settling, etc ...

- Mixing capacity : up to 500.000 liters
- Rotation speed : from 30 to 3000 rpm
- Connection flange size : DIN2576; DN125; DN80; DN50; PN10

# Control and Measuring Instruments

The instruments supplied by the SEKO make our company the ideal partner for water treatment and for monitoring chemical and physical parameters in industrial processes. The instruments are completed by sensors and accessories enabling them to be installed in any application.



## Single and double parameters control instruments Kontrol 500-502

Control Instruments for Process Industry application, Single and Double parameters with High accuracy measure and Data logger integrated, **RS485 port with ModBus RTU protocol** for full compatibility remote data logging interface.

- Measure range : pH / ORP; Conductivity; Dissolved Oxygen; Chlorine; Chlorine Dioxide; Hydrogen Peroxide; Ozone; Peracetic Acid; Turbidity and Suspended solids; Temperature



## Multi-parameter control instrument Kontrol 800

Multi parameters Control Instruments for Industrial and Water treatment application, high accuracy measure and friendly menu setting. **RS485 port with ModBus RTU protocol** for full compatibility remote data logging interface.

- Measure range : pH / ORP; Conductivity; Chlorine and Chlorine Dioxide; Temperature



## Single-parameter control instrument Kontrol 200

Control Instruments for Industrial and Water treatment application, high accuracy measure and friendly menu setting.

- Measure range : pH / ORP; Conductivity; Dissolved Oxygen; Chlorine; Chlorine Dioxide; Hydrogen Peroxide; Ozone; Peracetic Acid; Turbidity; Temperature



## Single and double parameters control instruments Kontrol 40-42

Advanced Control instrument that allows accurate adjustments for applications such as: mineral water processing, water treatment, electroplating processes, food production/processing, swimming pools, biotechnologies, osmosis plants.

- Measure range : pH / ORP; Conductivity; Chlorine; Chlorine Dioxide; Flow Rate; Temperature



## Multi-parameter photometer instrument Photometer System

Multi-Parameter Control Unit for contemporary determination of Free Chlorine (**Photometric System**), pH, Redox and Temperature. The system is equipped with a graphic display subdivided into areas for simultaneous display of all available measurements.

Multi parameters with High accuracy measure and Data logger integrated, **RS485 port with ModBus RTU protocol** for full compatibility remote data logging interface.

- Measure range : pH / ORP; Free and Total Chlorine; Combined Chlorine by software



# Control and measuring Metering Control System; Elektromagnetic, Ultrasonic, Radar and Trasmmitter sensors



## Multi-parameter metering control system Kontrol 800 Panel

Metering control system Kontrol 800 Panel is a complete panel station with hydraulic part and electronic controller instrument to adjust pH and Chlorine level with automatic proportional dosing. **RS485 port with ModBud RTU protocol** for full compatibility remote data logging interface.

- Measure range : pH / Redox; Amperometric Chlorine; Potentiostatic Chlorine; Total Chlorine; Combined Chlorine (By Software)
- Suitable for thermal bath water and sea water with specific software and for Cooling Tower Application



## Flow measurement with Electromagnetic and Ultrasonic sensors

- Flow measurement with Ultrasonic sensor
- Electromagnetic Flowmeter
- Ultrasonic flowmeter measurement "Transit Time"
- Transit time portable ultrasonic flowmeter



## Level measurement with Ultrasonic sensors and microwave radar

- Ultrasonic and piezometric level measurement
- Ultrasonic level measurement
- Microwave radar level measurement
- Capacitive - continous measurement



## Flow measurements with Transmitter sensors

- Pressure transmitters for applications in water treatment and food industry
- Pressure transmitters for applications in industrial processes
- Hydrostatic level transmitter
- Differential pressure transmitters for flow measurements

# Dosing Pumps

SEKO's individual dosing pumps and combined systems are user-friendly. They combine safety, reliability and durability for automatic dosing, specifically intended for heavy duty applications, with power-boosted motors.



## Peristaltic dosing pump driven stepper motor Kronos Series

The feed chemical is conveyed by means of the rotor squeezing on the hose. No valves are needed for this. This ensures gentle handling of the metered media. It is equipped with several inputs for metering configuration.

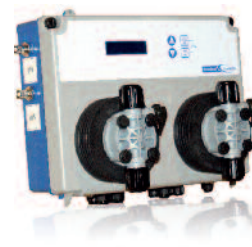
- Capacity range : from 2 to 25 L/h (2 ÷ 25 mL/h); from 0,1 to 6 bar



## Combined system with peristaltic dosing pumps Basic Series

Advanced combined system to adjust pH, Chlorine, Essences level with proportional, volumetric or timed dosing.

- Capacity range : from 25 to 9750 mL/h, 1, 5 bar
- Measure range : pH ; ORP
- Suitable for Cooling Tower Application



## Combined system with solenoid dosing pumps Invikta Series

User-friendly combined system to adjust pH and Chlorine level with automatic proportional dosing.

- Capacity range : 5 L/h, 5 bar
- Measure range : pH ; ORP
- Liquid end : PVC, PTFE, EPDM, FPM and Ceramic
- Suitable for Cooling Tower Application

## Side channel compressors and vacuum pumps



### Side channel Blowers

These machines are suitable for all those applications requiring a level pressure higher than that which can be reached using a centrifugal fan. The rotating parts, in that blowers, are not in contact with the housing, therefore no friction and thus is not necessary any lubrication. That means the gas remains uncontaminated and oil free.

- Capacity range : up to 1320 m3/h, up to 650 mbar

## Progressing cavity pumps



### Cavity Progressive Screw Pumps

The pump features a uniform flow rate proportional to the number of revolutions, as well as small size. This allows pumping the product without pulsations but also to keep it unaltered and undamaged. The pump is self-priming, with suction capacity proportional to its size, number of stages and speed. Minimum suction is 4 m.W.C.

- Capacity range : from 0,6 to 100 m3/h, from 2 to 24 bar; from 12 to 300 l/h, from 2 to 16 bar
- Pump body : Cast iron G25 UNI 5007; AISI 304 / 316
- Flange diameters : 160 / 200 / 250 / 300 mm

A Worldwide Group at your service



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