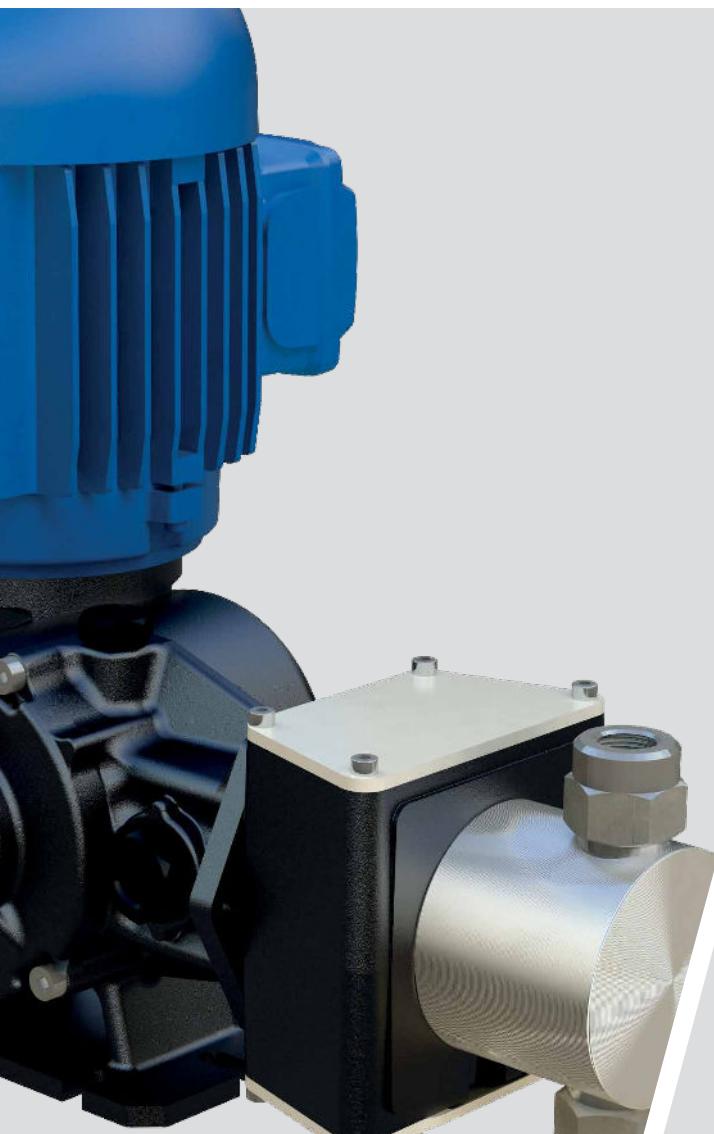


**SEKO**

# Spring

Plunger piston and mechanical diaphragm dosing pumps



Your Choice,  
Our Commitment

# Motor driven dosing pumps need to be robust, reliable and able to run on their own without supervision

Featuring a spring return mechanism in an aluminium housing, these pumps always deliver robust, affordable and efficient power.

They offer flexibility in stroke length and motor speed which are separately controllable. Thanks to the mechanically actuated diaphragms, SEKO's Spring pumps can be used almost universally in low pressure applications with the additional benefit of being a zero-leakage solution.

## Range also features

- Piston available as standard in SS316 or ceramic
- Mechanical diaphragm in PTFE
- Every pump can be equipped with an electric actuator which accepts a 4 – 20 mA signal



SEKO's entry level offering in motor driven pumps is the Spring series. Three sizes of mechanism and a wide selection of models with varying performance profiles allow the user to find the appropriate solution for almost any application, offering accurate dosing and different pressure conditions.



## A wide range of applications

Suitable for a wide range of applications within water treatment but also outside of this arena, Spring can effectively be used in any of the following applications:

**Potable water treatment** (injection of coagulants, flocculating agents, sodium hypochlorite, lime slurry, acid, bases, caustic soda, activated carbon, etc.)

**Domestic or industrial waste water** treatment, boiler feed water, cooling water

**Chemical treatment, electrolytic (electro-plating)** treatments: addition of degreasing agents, cleaning agents, nickel electroplating and chemical nickel plating, copper plating, tinning etc.

## For a wide variety of requirements. The SEKO Spring series



### Spring PS1

#### Plunger piston pumps

The PS1 series piston dosing pump offers a flexibility of choice combining different pump head and engine power options that ensures a solution for almost any eventuality or application. Stroke lengths can be set automatically or manually using the AKTUA Kit which uses a 4 - 20 mA signal.

Each model can be configured with 2 different stroke rates. Spring PS1 is supplied with a 3 phase electric motor with IP55 protection. Optionally available on request is a single-phase motor.

The PS1 12 VDC range achieves flow rates between 34 and 350 l/h at up to 20 bar.

#### Technical data

Pressure	4 – 20 bar
Flow rate	1.5 – 304 l/h
Material of pump head	SS 316L, PVC



# Spring PS2

## Plunger piston pumps

The PS2 series piston dosing pump also offers multiple combinations of pump head and motor power that enables it to adapt to a large number of applications with its ability to alter its hydraulic characteristics thanks to a larger piston size and longer stroke length, which allows flow rate and power to change.

Like PS1, PS2 pumps have a spring-loaded mechanism in an aluminium housing, and each model can be configured with 2 different stroke rates. Stroke lengths can be set automatically or manually using the AKTUA Kit which uses a 4 - 20 mA signal.

PS 2 pumps are supplied as standard with a 3 phase electric motor, though a single-phase is available on request, both with IP55 protection.

### Technical data

Pressure	5 – 20 bar
Flow rate	40 – 1000 l/h
Material of pump head	SS 316L



# Spring PS2 HP

## Plunger piston pumps

The PS2 series of High Pressure Piston dosing pumps can adapt to a large number of applications. Like other variants in the Spring Pump series, PS2-HP has a spring return mechanism in an aluminium housing.

This model has 2 stroke rates. Stroke lengths can be set automatically or manually using the AKTUA Kit which uses a 4 - 20 mA signal. They can be powered by a 3-phase motor which has an IP55 electrical protection classification.

For use in applications requiring an economic and practical solution for dosing small amounts of product with at high pressure, for example in a boiler at up to 100 bar.



### Technical data

Pressure	100 bar
Flow rate	2.5 – 12 l/h
Material of pump head	SS 316L

# Spring MS1

## Mechanical diaphragm pumps

The MS1 series offers multiple combinations of pump head and motor power that allows operators the chance to select the optimal combination appropriate to the specific application in hand.

The MS1 pumps have a spring return mechanism in a single aluminium housing. Each model works with 3 different stroke rates. Stroke lengths can be set automatically or manually using the AKTUA Kit which uses a 4 - 20 mA signal.

In addition, Spring MS1 pumps can be supplied with a single or three-phase electric motor with IP55 protection.

The MS1 12 VDC range achieves flow rates between 23 and 620 l/h up to 16 bar.

### Technical data

Pressure	2 – 16 bar
Flow rate	5.5 – 1200 l/h
Material of pump head	SS 316L, PVC, PP, PVDF



# Spring MS1 AVS®

## Mechanical diaphragm pumps

The patented AVS (Assisted Vacuum System), helps overcome the typical functional limitations of the pumps with a spring return. The increase in performance is made possible thanks to using a high number of strokes/min, that do not damage the lifespan of the diaphragm.

This means that Spring MS AVS can reach a flow rate of 1200 l/h, whilst keeping noise and mechanical stress levels at a reduced level. Each model can be configured with 2 different stroke rates and can be supplied with a single or three-phase 2 poles electric motor with IP55 protection.

### Technical data

Pressure	2 – 4.5 bar
Flow rate	450 – 1200 l/h
Material of pump head	SS 316L, PVC, PP, PVDF



# Spring MSV

## Mechanical diaphragm pumps

MSV is a new range of diaphragm dosing pump, designed to ensure reliable and effective long-term transfer of fluids. MSV features motorized mechanisms with high performance, high efficiency motors that are mounted vertically in a PP casing.

Reinforced by its double camshaft mechanical structure, the pump offers high levels of stability while remaining a low noise unit with exceptionally accurate flow rates.

Adaptable to a wide range of uses, Spring MSV provides high dosing accuracy across a wide variety of liquids, sludge and chemicals.



### Technical data

Pressure	3 – 5 bar
Flow rate	10 – 120 l/h
Material of pump head	SS 316L, PVC, PP, PVDF

## Accessories for a perfect installation

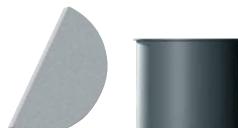
The trouble-free operation of a pump depends on the correct pre-installation analysis that is specific for the required task. The consequent choice of accessories and their sizing are very critical for the correct and smooth performance of a reliable system.



Mixers



Polyethylene tanks  
SER Series



Reinforcement and  
Uncovered tanks



Pulsation dampers



Adjustable  
Backpressure valves



Overpressure  
valves



Backpressure  
valves



Multifunction  
valve



"Y" Suction  
Filters



Fitting/Testing  
unit

# Your Choice, Our Commitment

In the modern Globalised world, being a privately owned Company has significant benefits especially for our Customers, our Partners. For over 40 years, SEKO has developed a Global organisation able to take the longer view, manage the pressure of the now, and to plan for the long term, delivering true Partnership for our Customers, with transparency and mutual respect for each other.

Whether it's for our renowned flexibility, our attention to detail, the high-quality products, or just the way we do business, we understand that it's Your Choice to do business with us. It is Our Commitment to fulfill your needs wherever you, our Customers are.



For more information about our portfolio, worldwide locations, approvals, certifications, and local representatives, please visit [www.seko.com](http://www.seko.com)

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