

# Process & Systems

## BUSINESS UNIT OVERVIEW



# Production and services

Process and metering pumps, both diaphragm and plunger type, are produced according to **SEKO's** own designs, covering a wide range of performances:

**Plunger metering pumps** (according to API 675) for flow rate up to 15,000 l/h and pressure up to 1,000 bar;

**Diaphragm metering pumps** (according to API 675) for flow rate up to 15,000 l/h and pressure up to 300 bar;

**Reciprocating Triplex process pumps** (according to API 674) for flow rate up to 57,000 l/h and pressure up to 1,150 bar.

**Chemical dosing/injection packages:** fabrication, assembly and testing activities are all carried out by SEKO in the three production facilities. Raw materials for construction are purchased from qualified international suppliers. Instrumentation, valves and remaining components are selected from world-wide valued suppliers, in compliance to the specific project vendor list when required by the customer. Tanks and pressure vessels are also manufactured by SEKO, which production facilities are been recently ASME certified (U-Stamp).

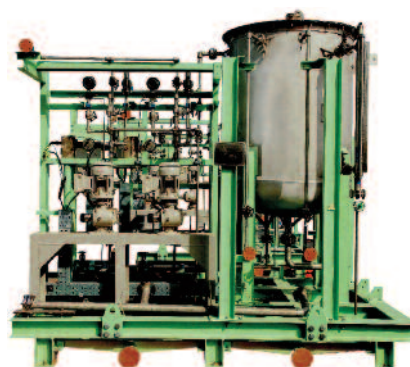
Manufacturing Facility recently Certified ISO 14001 & OHSAS 18001.

**SEKO** operates according to **UNI EN ISO 9001**, audited and certified by DET NORSKE VERITAS (DNV):

- **Yearly Management Plan based on market analysis**
- **Sales Process control for better assisting/supporting customers**
- **R&D and Design Innovation to deliver "state of the art" products for all specific applications**
- **Centralized Supply Chain Control to assure the best delivery time with the highest competitiveness**
- **Lean Production and Just in Time for optimizing costs**
- **Strict Quality Control both on received and delivered materials**
- **Financial Management Plan**
- **Commitment to Higher HSE Standards**



Phosphate Injection Package



Anti-foam Injection Package



Sodium Hypo-chlorite Injection Package

# Chemical dosing/injection packages



Corrosion Inhibitor Injection Package



Oxygen Scavenger,  
Anti-scale and Biocide Dosing Packages



Anti-scalant, Demulsifier and  
Anti-oxidant Injection Package



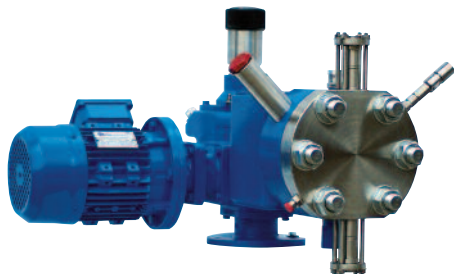
Chlorine, Corrosion Inhibitor and  
Anti-scale Injection Packages



Phosphate Dosing Packages



# Metering & Process pumps



## Nexa Series

Plunger and hydraulic double diaphragm metering pumps

**Liquid end:** SS 316L, PP, PVDF, different material on request

**Flow-rate adjustment:** manual, electrical 4÷20 mA, Pneumatic 3-15 psig and/or SMART (protocol HART) servomotor and/or by frequency converter drivers

**Multiple head execution** with different mechanism size and gear ratio

**Pressure** up to 200 bar

**Flow rate** up to 2650 l/h

**API 675 Standards - CE and ATEX marking**



## Nyva Series

Hydraulic diaphragm metering pumps

**Liquid end:** AISI 316L ; PP ; PVDF

**Flow-rate adjustment:** Manual or automatic by AKTUA.

**Pressure** up to 124 bar

**Flow rate** up to 660 L/h

**API 675 Standards - CE and ATEX marking**



## K Series

Plunger metering pumps with spring return mechanism

## D Series

Mechanical diaphragm metering pumps with spring return mechanism

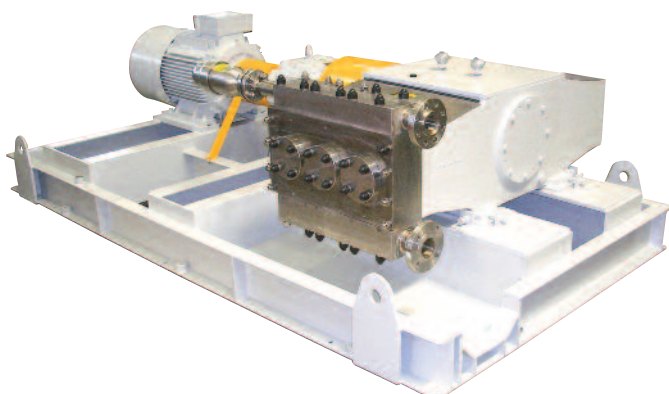
**Liquid end:** SS 316 L or PVC

**Flow-rate adjustment:** manual, electrical 4÷20 mA or Pneumatic servomotor 3-15

psig servomotor

**Pressure** up to 20 bar

**Flow rate** up to 1000 l/h



## 3C TRIPLEX Series

Three Plunger Reciprocating Pumps

**Liquid end:** SS 316 L, 304 SS or CS pump-head, different material on request

**Flow-rate adjustment:** via Frequency Converter

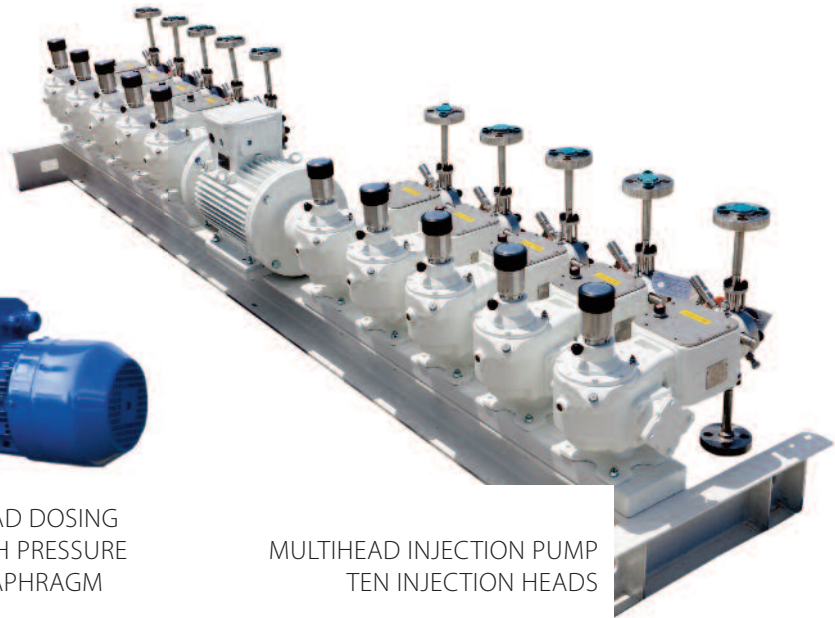
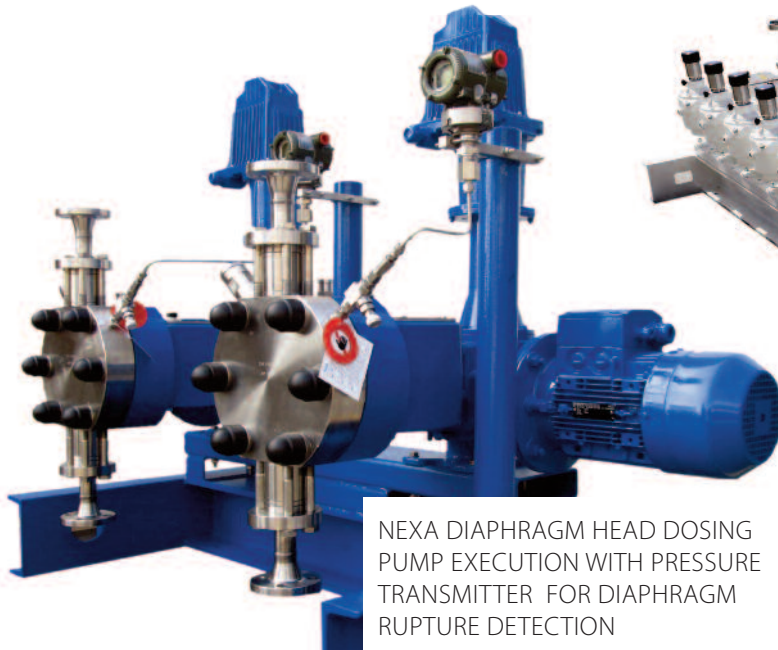
**API 674 standard**

**Double head execution**

**Pressure** up to 1200 bar

**Flow rate** from 1.000 to 60.000 l/h

# Pumps execution tailored on Customer specification



## References

Some of the best known clients and engineering companies that SEKO has worked with:

