

Process & Systems

BUSINESS UNIT OVERVIEW



innovation > technology > future

About Us

Formerly known as BONO EXACTA, the company operates since 1963 in the design and production of API 674 process pumps, API 675 metering pumps and chemical injection packages for the oil & gas.

In 2002 BONO EXACTA has been acquired by SEKO, becoming its **Process & Systems business unit**.

With an experience of over 50 years, SEKO is as a true technological leader partnering each individual customer from the preliminary stage of the project to the ordering, design, manufacturing and after sales technical assistance.

Committed to Customer satisfaction

SEKO is organized as a true technical consultancy service to each individual customer from the preliminary stage of the project through the ordering, design, manufacturing and after sales technical assistance.

A team of skilled engineers operating with sophisticated CAD stations, 3D modeling and FE software provides design and the engineering of systems according to the most demanding international standards, such as ASME, ANSI, BS, API and as required by customer's project specifications.

A total engineering process and a comprehensive supply approach can be undertaken according to clients requirements.

- *Proximity to our customers via three production facilities located in Italy, Romania and United Arab Emirates*
- *High competitiveness*
- *Support to the customers since the FEED stage up to the equipment commissioning*
- *After Sales Service for start-up, commissioning and specific dosing problems*
- *Ordinary maintenance support by a dedicated staff*
- *Quick reaction time*
- *Specific trainings for customer operations and maintenance engineers*

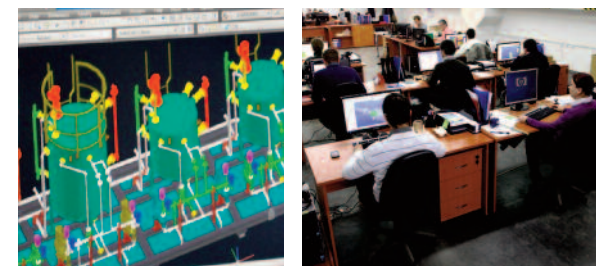




Our Centres of Excellence

The business unit has its HQ in Milan (Italy) and deploys its operations through its 3 dedicated production facilities, in order to partner its customers worldwide:

▲ ITALY ▲ ROMANIA ▲ UNITED ARAB EMIRATES



Worldwide Presence

A network of subsidiaries, agents and distributors around the world grants to customers the best and quickest response time for commercial and after sales needs. An After Sales team is full time available to assist Customers and End Users on a short reaction time basis.

Spare parts are available on stock for 10 years after the goods delivery. After 10 years, spare parts remain available upon specific request, for the entire lifetime of the equipment.

Application areas

The main industrial application areas for the equipment designed and produced by **SEKO** P&S Business Units are:

- Oil & Gas (on-shore, off-shore, FPSO)
- Petrochemical
- Energy (boilers, desalination, cooling towers, environment).

SEKO also supplies pumps and systems to the:

- Water treatment (municipalities, wastewater)
- Industrial sectors (steel, ceramics, food & beverages, detergents, paper, textile and pharmaceutical industries).

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).

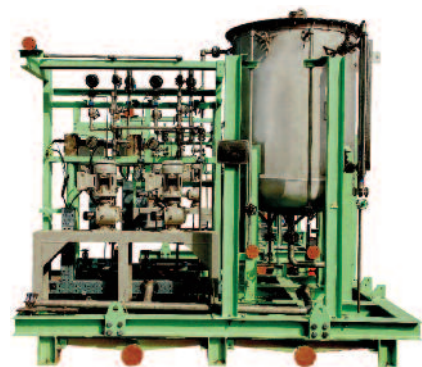
Manufacturing Facility recently Certified ISO 14001 & OHSAS 18001.

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

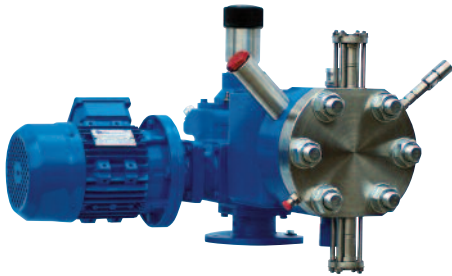


Chlorine, Corrosion Inhibitor and
Anti-scale Injection Packages



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

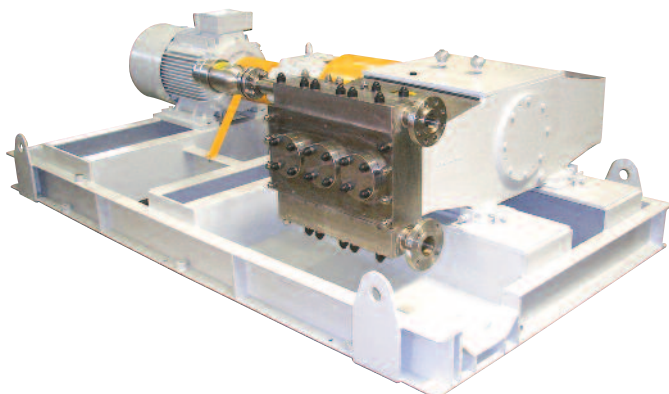
Liquid end: SS 316 L or PVC

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

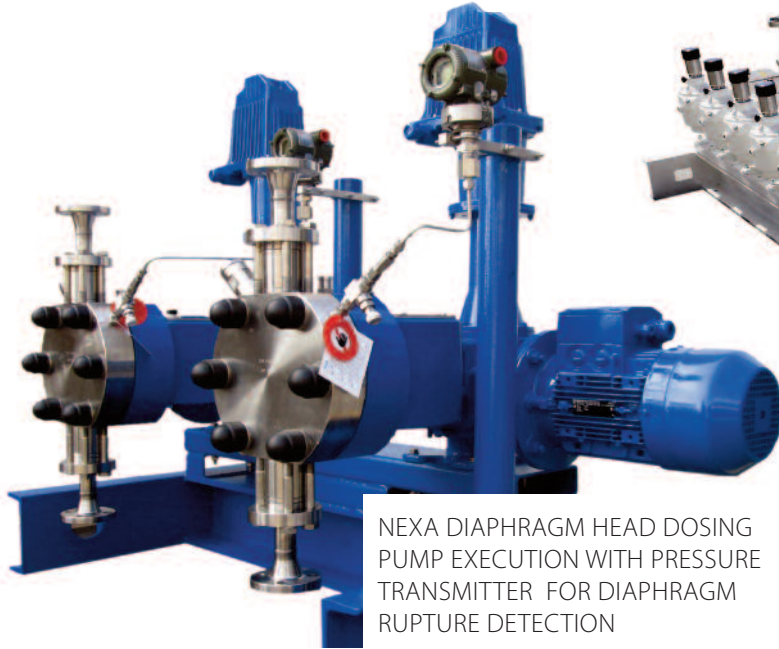
API 674 standard

Double head execution

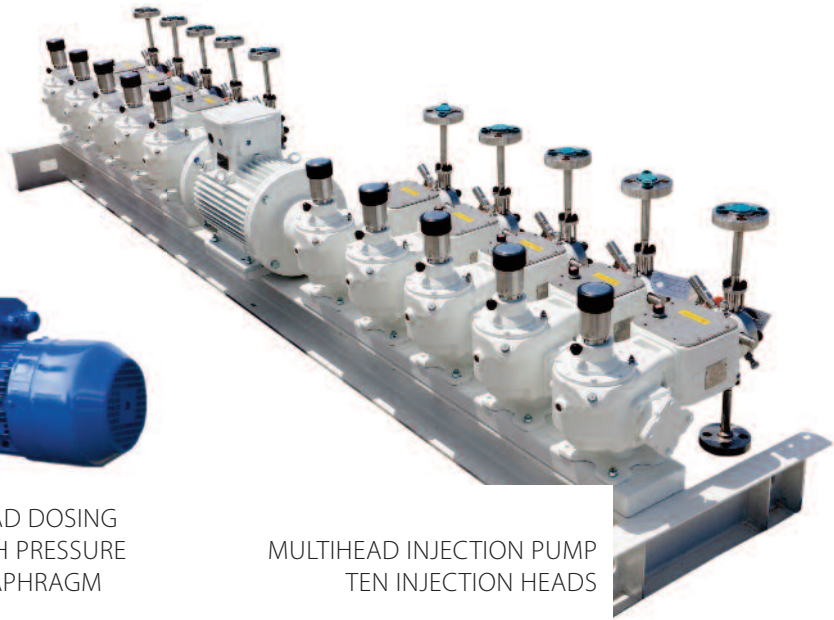
Pressure up to 1200 bar

Flow rate from 1.000 to 60.000 l/h

Pumps execution tailored on Customer specification



NEXA DIAPHRAGM HEAD DOSING PUMP EXECUTION WITH PRESSURE TRANSMITTER FOR DIAPHRAGM RUPTURE DETECTION



MULTIHEAD INJECTION PUMP
TEN INJECTION HEADS

References

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



A Worldwide Group at your service



- ▲ Centre of Excellence
- Subsidiaries

ITALY

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