





PRODUCTS CATALOGUE



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FIMARS

ABOUT US

High Quality, Efficiency, Flexibility and Promptness. These are all ingredients of the Fimars way. Fimars is leader in the design,

development and manufacture of metering pumps, polymer and emulsion preparation systems.

Together with its important partners, Fimars offers tailored solutions for pumping, a wide range of accessories, spare parts and services, and professional assistance in setting-up your plant.

All Fimars branded products are designed paying utmost attention to every single component, with the ultimate goal of total efficiency and high quality.

- ♦100% European Product
- Very competitive price
- Pumps on consignment
- Exclusivity agreements in your mutually agreed area
- Fixed prices up to 3 years
- Worldwide fast delivery
- Training on our pumps at your place
- ♦ Warranty extensions up to 36 or 60 months Immediate delivery of
- replacement pump in case of failure
- Direct technical support for reparations and maintenance



Certificato ISO 9001:2008

INNOVATION IN METERRING SWISS RELIABILIT

General Overview

Our solutions are trendsetting for chemical dosing.

You can find our products hard at work in several industrial sectors including water and wastewater treatment, food and beverage, chemical and petrochemical, powerplant technology, etc...

Our design and quality are equal or better then major brands, while our flexibility allows a prompt reply to any individual customer need.

Our extensive product portfolio, 100% European, includes:

- Motor driven, mechanical diaphragm, MIA series spring return metering pumps, flow rate <u>up to 1000 l/h</u>
- Motor driven, plunger, NEO series for small flow rate and high pressure
- Motor driven, zero leakage plunger, FUL series spring return metering pumps, flow rate up to 1000 l/h
- <u>Automatic</u> flow control on all motor driven pumps through <u>linear electric actuator</u>,
 4-20 mA or 0-10 V command signal
- PP, PVDF, SS 316 L, PVC liquid end standard materials, special executions always available on demand
- Solenoid SOL series metering pumps, several control modes available: 0-20%-0-100% manual, frequency, 0/4-20 mA, Rx, pH, chlorine, multifunction
- ▲ Peristaltic ELA series metering pumps and washing machines dosing systems
- High pressure and High viscosity solutions
- ▲ ATEX solutions
- Polymer preparation systems, 500-10000 litres tanks, PPS series, HDPP or S.S. 304L tank material. <u>Reagents</u> preparation systems with polyethylene tank 30-1000 litres
- Accessories: safety/backpressure valves, flow meters, mixers, tanks, calibration pots, pulsation dampeners, foot valves, etc...









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OUR PRODUCTS

Mechanical Diaphragm Pump MIA series

♠ Performances

Flow rate: 0-1000 I/h

Pressure: up to 8 bar

Accuracy: ± 2% of rated flow from 10 to 100% of rated flow *

Mechanically actuated PTFE diaphragm

Safe: leak free operation, no external moving parts

Robust, compact, reliable design

Easy handling with minimum maintenance

Adjustment:

0-100% Stroke adjustment while running or steady

Standard micrometric manual adjustment 1 mm per turn

Optional electric actuator, 4-20 mA or 0-10 V command with manual override Optional motor with integrated inverter for frequency control

Silver painted aluminum casing

Standard liquid end executions: S.S. 316 L, PP, PVDF

Customized executions available: PVC, PTFE, Hastelloy C276, etc..

Customized solutions:

ATEX executions

Double valve assemblies UNI/ANSI flanges

High viscosity executions

Special motors

*Performances valid with 50Hz power supply















Plunger Pump NEO series

Performances:

Flow rate: 0-425 I/h Pressure: up to 150 bar

Accuracy: ± 2% of rated flow from 10 to 100% of rated flow *

Optional motor with integrated inverter for frequency control

Features:

Low flow rate, high pressures

Robust, compact reliable design

Accurate dosing at any pressure

Adjustment:

0-100% Stroke adjustment while running or steady
Standard micrometric manual adjustment 1 mm per turn
Optional electric actuator, 4-20 mA or 0-10 V command with manual override

▲ Materials:

Silver painted aluminum casing

Standard liquid end executions: S.S. 316 L, PVC

Customized executions available: Incoloy 825, Hastelloy C276, Titanium, etc..

△ Customized solutions:

ATEX executions

Double valve assemblies UNI/ANSI flanges

High viscosity executions

Special motors

*Performances valid with 50Hz power supply











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OUR PRODUCTS

Zero Leakage Plunger Pump FUL series

FUL series plunger pumps equipped with FPS technology: "FREE PERMANENT SEAL" guarantees zero leakage, while performances are constant also at higher pressure.

▲ Performances

Flow rate: 0-1000 I/h

Pressure: up to 100 bar

Accuracy: ± 2% of rated flow from 10 to 100% of rated flow *

▲ Features:

Zero leakage plunger pump

Robust, compact reliable design

Easy handling with minimum maintenance

<u>Adjustment</u>

0-100% Stroke adjustment while running or steady

Standard micrometric manual adjustment 1 mm per turn

Optional electric actuator, 4-20 mA or 0-10 V command with manual override

Optional motor with integrated inverter for frequency control

▲ Materials:

Silver painted aluminum casing

Standard liquid end executions: S.S. 316 L, PVC

Customized executions available: Incoloy 825, Hastelloy C276, Titanium, etc...

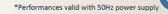
▲ Customized solutions:

ATEX executions

Double valve assemblies UNI/ANSI flanges

High viscosity executions

Special motors











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- Dosing Tank Unit for floor mounting (SPE)
- An efficient and simple solution easily installed and maintained
- An inbuilt container for provision, preparation and storage of the relevant medium
- Long-term flexibility assured as for new dosing processes at different locations
- PE tanks capacity from 120 to 1000 L
- Assembled with mechanical diaphragm or plunger motor driven pump as well as with electromagnetic pump or without pump
- Complete with foot valve, drain valve and PE fixing feet
- Available also as small polymer preparation system up to 300 L capacity, complete with stirrer and polyelectrolyte mixer









Fully Customizable



Highly customizable with optional level probe, stirrer, relief and backpressure valve

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OUR PRODUCTS

Automatic Polymer Preparation Plants - PPS/EPS series

Easy, flexible, convenient and efficient systems for the continuous treatment and dosing of polymers. PPS series are dedicated to dry polymers, while EPS series to liquid polymers. EPS are normally equipped with a dosing pump designed for high viscosity liquids.

Prepared polymers filter out particles from drinking water and wastewater. Furthermore, they are important components in sludge dewatering.

▲ Features

Various sizes from 500 L capacity up to 10000 L Dilution ratio from 0,3 - 0,5% for PPS and 0,1 - 1% for EPS Single, double or triple compartments with level probes Combined plants for dry and liquid polymers available Easy handling minimum maintenance High customization possible

Tank materials: High density polypropylene and S.S. 304 L Automatic running through electric control panel IP 55



PPS-EPS Up to 10000 L/h Preparation















Solenoid Pump SOL series

≜ Performances:

Flow rate: 0-50 I/h Pressure: up to 20 bar Max stroke rate: 200 spm

♦ Features:

Solenoid actuated PTFE diaphragm
Safe: leak free operation, no external moving parts
Robust, compact reliable design
Pump-head with manual priming system
IP 54 or IP 65 protection
Available with digital display and status leds

▲ Control Options:

Manual and digital adjustment

On/Off function

Standby function

Frequency regulation pulse/min, pulse/hour, pulse/day

1XN, 1/N, 1XN-M

4-20 mA, 20-4 mA Redox 0-999

0-14 pH

▲ Materials:

Reinforced PP/PVC casing and head (optional PVDF) PTFE diaphragm Pyrex/Hastelloy C valves (optional PTFE)



Polycarbonate pump body















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OUR PRODUCTS

Peristaltic Pump ELA series

≜ Performances

Flow rate: up to 10 l/h Pressure: up to 7 bar

▲ Features:

Power supply: 100-240 VAC / 24 VAC / 230 V ON/OFF/PRIMING switch Level input Robust, compact reliable design Available with digital display and status leds Alarm-signalling buzzer IP 65 protection

Triple system for dishwashing machine

▲ Control Options:

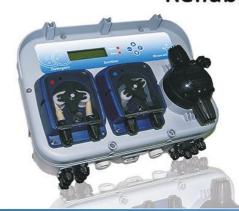
Flow rate speed adjusting trigger Display and programming keys Controlled by conductivity and time/speed

▲ Materials:

Reinforced PP box Santoprene/Tygon/Silicon tube

















Washing Machines Dosing Systems GW

▲ System Composition:

- Modular system
- Quick and easy installation
- From 3 to 6 pumps
- Flow rates LF up to 20 I/h
- Flow rates HF up to 100 l/h - Modular flushing manifold included
- Programmable via software for PC
- IP65 protection degree
- Statistics
- Priming button for each pump

▲ Module Composition:

- Three pumps (each pumps can have a range of up to 20 l/h or 100 l/h)
- One input for level control
- One input for flow sensor
- Eights inputs for the signal coming from the washing machine (Signal Types: 12VDC, 24VAC, 110VAC, 230VAC)
- An output for flushing manifold solenoid valve
- A connector for communication with the console (not included)
- One 24 VDC 0.5 A output for alarm
- An output relay for alarm
- One DB9 connector for RS-232 communication with PC

WH-048++004X87LEX0

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▲ Console:

The console is equipped with a 16x2 display and 5 buttons for program selection displaying an alarm in progress and system

♦ Operation:

The washing programs can start from: console, combination auto-start program and time auto-start program, wich allows, on signal activation, to activate the desidered program on basis of time and programmable divider values

▲ Available Models:

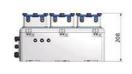
The system can operate in relays mode, program or combination/time auto-start mode

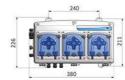
GREEN WASH

Single laundry machine system

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OUR PRODUCTS

Washing Machines Dosing Systems GWM

SYSTEM COMPOSITION

Central System:

- It's formed by the Central Module and the Signals Module Central Module
 - Switching-mode power supply with PFC: 100-240 VAC 50/60 Hz
- Consumption (max): 150W

Signals Module

- Provided with a preassembled phone cable (7 meters)
- Up to 8 trigger signals from the washing machine
 Trigger signals in AC and DC voltage with thresholds selectable by software

- It is possible to assembly a system up to 10 pumps or relay modules; moreover onlt three pumps or relay modules
- can work at the same time. LF Pump Module:
- Max flow rate 20 I/h, speed programmable by software
- Priming push buttor
- IP65 protection degree

HF Pump Module:

- Max flow rate 100 l/h, speed programmable by software - Pharmed squeeze tube. Silicone/Santoprene tube upor
- Priming push buttor
- IP65 protection degree

Relay Module:

- Maximum load switchable up to 0.55 KW (motor driver
- pump or solenoid metering pump)

▲ Flushing Manifold Kit:

- Depending on number of pumps in your system, yo
- Flushing Manifold Kit for 3 valves
- Up to 3 valves (NPT 1/4" junction
- Flushing Manifold Kit for 6 valves
 Up to 6 valves (NPT 1/4" junction)

- Non-return valve to separate the chemicals with the sole
- Barb fitting outlet for 10x14 tube
- In-Out tube 3/4"
- EPDM/FPM injection valves NPT1/4" with barb fitting 8x12

▲ Flushing Manifold Accessories and Spare Kits:

Adding Module with 3 Inlets NPT 1/4"

Spare Parts:

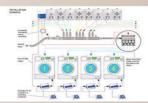
- Solenoid valve 3/4" M/M 24 VDC
- PVC tube 3/4" 3/4"

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GREEN WASH multi

Controls up to 4 washing machines





"The first dosing system for industrial washing machine completely modular. It allows a customized assemble on field to assure the perfect wash "

THE GREEN WASH MULTI allows to manage up to four washing machines. Each machine is associated with a Signal module to acquire the status of the relative solenoid valves. The pumps, up to ten, are connected to the product flushing kit. This is connected to the machine flushing kit, wich allows to dose the product into the washing machine that required the dosing.

The central module manages the flushing solenoid valve at the inlet of the flushing kit and the 4 solenoid valves that control the flow to the washing machines.

Accessories

Extensive portfolio of accessories for water treatment and dosing systems

- Relief and backpressure valves with fixed and adjustable settings up to 8 bar,
 S.S. 316L, PVC or PP made, threaded BSPF, UNI or ANSI flanged
- Foot valves with filter
- Safety valves PVC or S.S. 316L made, available also in ATEX execution, BSPF or NPT threaded, UNI DN 15 − DN 50 or ANSI ¾" − 2" flanged, exotic materials if required
- High pressure safety valves
- ♦ Pulsation dampeners PVC, S.S. 316L or PVDF made, available also in ATEX execution
- Calibration pots
- A Flow meters
- Mixer
- Tanks up to 1000 L capacity
- Level probes







SERVICES

- ♦ 36 SOLUTION: 36 months warranty extension with spare kits
- 60 SOLUTION: 60 months warranty extension with double spare kits
- SAFETY PUMP: Replacement pump immediately available for rent in case of major failure
- SPARE KITS: Individually purchasable and ready to use spare kits:
 - -discharge valve kit pre-assembled;
 - -suction valve kit pre-assembled;
 - -diaphragm kit: including oil gaskets and oil;
 - -start up kit: includes only parts subjeted to wear, that is: ball valve, valve seat and gaskets
- PUMP FOR RENT: 36-60 months rent supply of a dosing pump, alternatively to purchase.
 Standard and special maintenance included
- SAFETY ASSISTANCE: On request our service will assist you on site for maintenance operations or for spare parts replacement.
- PUMPS ON STOCK: Our pumps closest to end-users everywhere in the world

"...Your pump arrived sooner than the quotation of your competitors"

Our tipicall costumer

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APPLICATION FIELDS

Main Markets for our Products

▲ Water and Waste Water Treatment:

Disinfection, flocculation, deodorizing, pH control, metal removal, anionic and cationic polymer dosing, slurry treatment, industrial laundries

Desalinization:

Cleaning and maintenance of reverse osmosis membranes

♠ Fertigation:

 $Agricol ture\ applications\ such\ as\ fractionation\ nitrogen\ fertilisation,\ fertilizer\ injection,\ water\ distribution\ and\ cleaning$

♦ Pulp & Paper

Biocides injection, antifoam injection, coagulation (polymer, alum sulfate), bleaching, pulp pH adjustment

Air Treatment:

Injection of sodium hydroxide, injection of sulphuric acid, injection of bleach

▲ Animal Husbandry:

Potabilisation and post-weaning water treatment

♦ Wine Growing

Sulphiting (dosing of liquid sulphur, potassium bisulphite or potassium metabisulphite), clarification (injection of bentonite), fermentation (injection of yeast), distillery (injection of soda lye), and cleaning in place (injection of sodium hydroxide and nitric acid)

♦ Other industries:

Biodiesel production, power stations, reagent preparation, plastic production, chemical & petrochemical, food industry, oil & gas, and confectionary.



