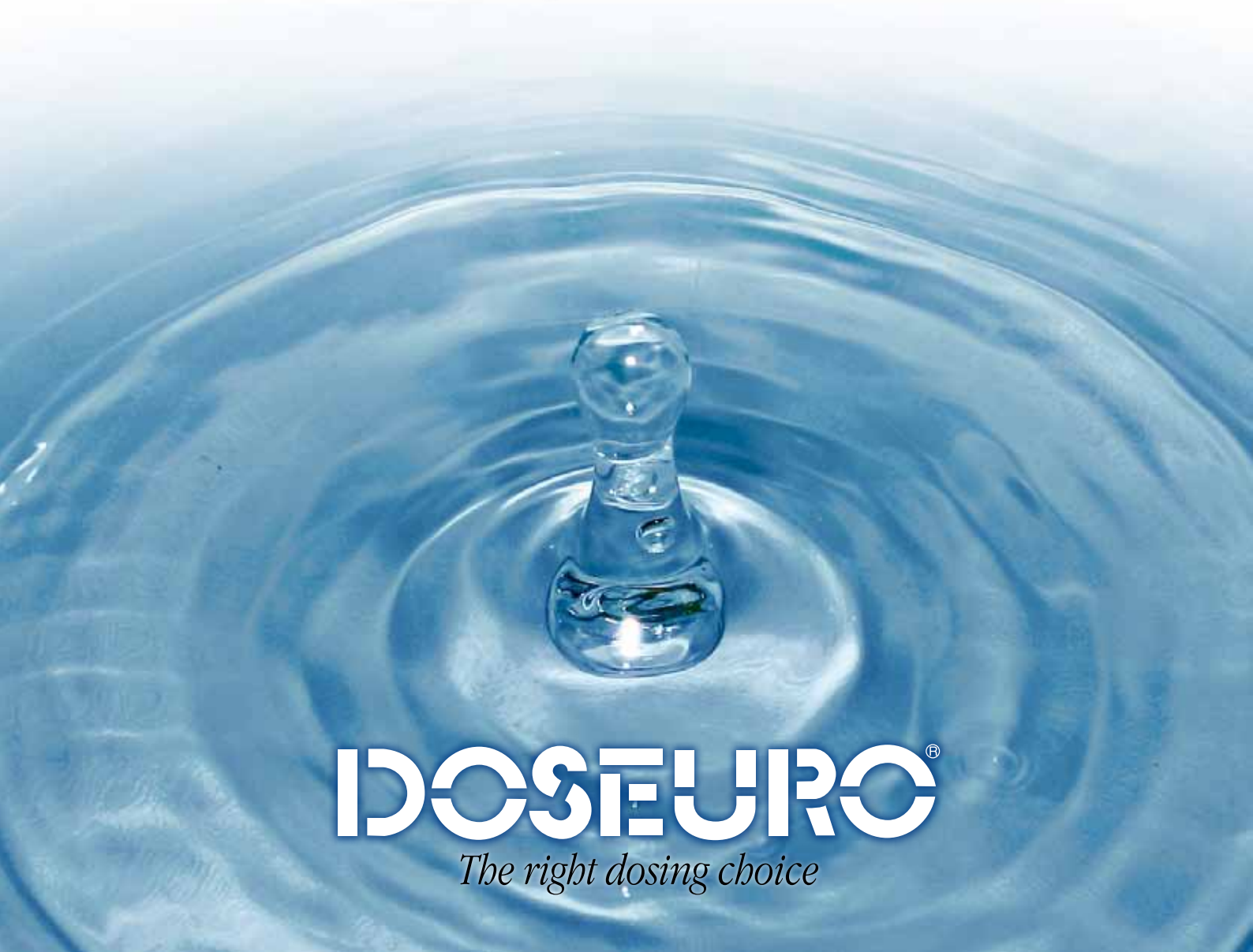
General catalogue

Metering pumps



DOSEURO®

The right dosing choice

We make fluid

The company

Doseuro is a combination of two capabilities, the first is a technical expertise gained from many years of experience in the chemical dosing field. The second is a commercial understanding of the changes in this field and a sensitivity beyond the requirements of our customers. These two factors are supported by a strong company structure that responses to our customers demands.
The continuous research and principal effort directed to the customer satisfaction are the fundamental reasons of Doseuro success, which is widely confirmed by the thousand worldwide plants working with our pumps.

The product

What makes Doseuro pumps unique? It's the competitive price-quality always aligned with the customer expectations.

Each of our products speaks for itself. High reliability is achieved by constant product development, updating production techniques, constant quality control and rigorous testing at all stages of production.

Every model of dosing pump has been carefully designed, built and tested to ensure a long and useful life.
If this alone is not sufficient, then please go further and ask us about our prices.

Main features

All Doseuro pumps are fitted as standard with top quality 4 pole electric motors that conform to the UNEL-MEC specifications, and range from 0.09-4.0 kW at European standard 3 phase voltages of 230/400V @ 50Hz.

Non standard motors are available to many alternative specifications, including different voltages and frequencies, insulation standards, and special explosion-proof versions.

The dosing rate is fully adjustable via a manually controlled eccentric cam mechanism with spring return, or positive displacement plunger according to API standard 675.

Automatic adjustment is available by means of servo-control motors, pneumatic control or motor frequency control, interface PROFIBUS or other BUS, if required. The very strong gearbox utilises a worm and wheel gear reduction system.

Our pumps are complemented by a wide range of accessories which include, foot valve/strainers, pressure relief and loading valves, injection fittings and pulsation dampers.

Special versions of construction are available to suit our clients specific applications.

DOSEURO

world to move

A view over the production range

Doseuro chemical dosing pumps are available in three main versions. Plunger pumps with packed plungers, plunger/hydraulic diaphragms or mechanical diaphragms. Even high pressure pump heads are available, if requested. The range also includes various driving methods, such as electric motor or electromagnetic solenoid operation. The company also manufacturers complete dosing packages, electric mixers, and fully automatic plants for the dissolution and mixing of polyelectrolyte chemicals.

The most common fields of application for Doseuro chemical dosing pumps include:

FOOD PRODUCTION

PAPER INDUSTRY

CHEMICALS AND DYESTUFFS TANNING

WATER AND EFFLUENT TREATMENT

PHARMACEUTICALS AND TEXTILES

HORTICULTURAL APPLICATIONS

RUBBER AND PLASTICS

OIL AND GAS

IRON, STEEL, COAL AND CONSTRUCTION

NAVAL AND CIVILIAN MARINE

MANY ENGINEERING PROJECTS...

... AND WHEREVER THERE IS A FLUID

PDP series A-I type

Positive displacement plunger dosing pump

PDP series positive displacement plunger dosing pump are manufactured according to API standard 675.
Multiplex drive units with different performances can be coupled between them, independently from the size and stroke number.
Stroke adjustment can be carried with the pump at rest or in operation.
Accuracy is better than 1% from 10 to 100% of maximum output.
Lower NPSH requires with normal operating conditions in function of the head type.

Max. capacity L/h	
A-I 250	1645
A-I 350	3800
AP A-I 250	164
AP A-I 350	470

Fittings

- Relief valves and back pressure valves
- Safety relief valve
- Injection valve
- Fout valve
- Hydropneumatic accumulators
- Calibration pot

A-I 250

A-I 350

A-I 250 ATEX

PDP series SDI type

Sandwich Hydraulic Diaphragm Dosing Pump

SDI Sandwich Hydraulic Diaphragm pumps are manufactured according API 675.

SDI pumps are suitable for use when:

- the liquid to dose contains small amounts of suspended solids
- the dosed liquid is a toxic solution
- liquid leaking are not accepted.

Is included on the pump an internal safety valve to protect the diaphragm against over pressure. The peculiarity of this pump is the special sandwich diaphragm and the reliability of the rupture diaphragm detention system . Accuracy is better than 1% from 10 to 100% of the stroke adjustment

Max. capacity L/h	
SD I 250	1561
SD I 350	3508
AP SD I 250	711
AP SD I 350	1496

Fittings

- Relief valves and back pressure valves
- Safety relief valve
- Injection valve
- Fout valve
- Hydropneumatic accumulators
- Calibration pot

SD I 250

SD I 350

SD I 250 ATEX

DOSEURO

SR series A type

Spring Return Plunger Dosing Pumps

Plunger metering pumps are suitable for use when:

- The dosed liquid is a non abrasive solution
- A drip proof system is not essential
- High pressure is required

Each pump is fitted a standard gearbox reduction system and with a vertical mounted B14 shaped electric motor in accordance with UNEL-MEC specifications.

The motor power range is from 0.18 Kw up to 0.75 KW as the European standard: 3 phase voltages of 230/400V @ 50/60Hz, 4 pole and 1 phase voltages of 230/50-60 Hz or 110/60 Hz.

As motors conform to UNEL-MEC specifications, there are many alternative option available, including different voltages, insulation class and special explosion proof versions.

Max. capacity L/h	
A 125 N	156
A 175 N	408
A 250 N	1042
A 350 N	1458

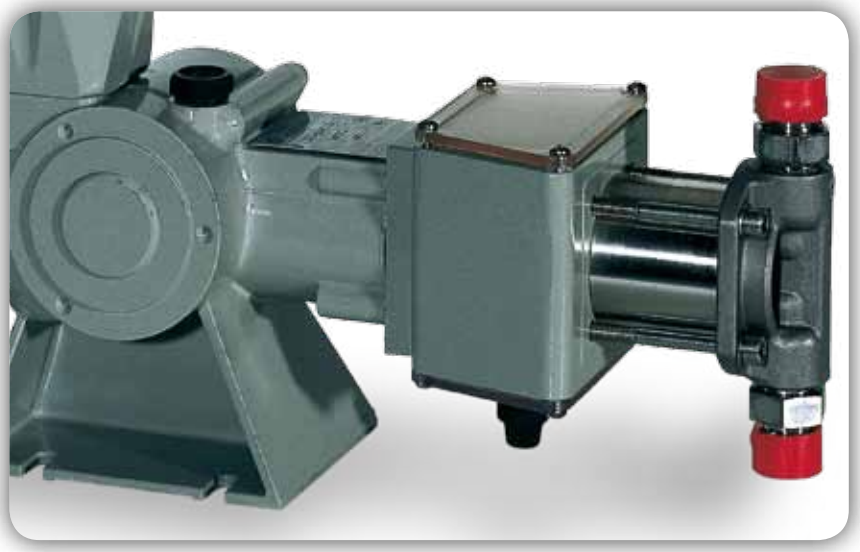
Fittings

- Polyethylene tanks
- Relief valves and back pressure valves
- Safety relief valve
- Injection valve
- Fout valve
- Hydropneumatic accumulators
- Calibration pot

The gearbox is a standard wormwheel reduction system with all bearings supported within a fully lubricated gearbox. The mechanism for variation of the stroke length a positive stroke spring return that is operated by an eccentric.

A 125 N

A 175 N



A 250 N

DOSEURO

SR series D type

Spring Return Mechanical Diaphragm Dosing Pump

Mechanical Diaphragm pumps are suitable for use when:

- The dosed liquid contains small amounts of suspended solids
- The dosed liquid contains a toxic solution
- A drip proof/air tight application is required
- High pressure is not required

Each pump is fitted a standard gearbox reduction system and with a vertical mounted B14 shaped electric motor in accordance with UNEL-MEC specifications.

The motor power range is from 0.18 Kw up to 0.37 KW as the European standard: 3 phase voltages of 230/400V @ 50/60Hz, 4 pole and 1 phase voltages of 230/50/60 Hz or 110/60 Hz.

As motors conform to UNEL-MEC specifications, there are many alternative option available, including different voltages, insulation class and special explosion proof versions.

The gearbox is a standard wormwheel reduction system with all bearings supported within a fully lubricated gearbox.

The mechanism for variation of the stroke length a positive stroke spring return that is operated by an eccentric.

Max. capacity L/h	
D 050	49
D 100	374
D 101	408
D 121	574

Fittings

- Polyethylene tanks
- Relief valves and back pressure valves
- Safety relief valve
- Injection valve
- Fout valve
- Hydropneumatic accumulators
- Calibration pot

D 050

D 100

D 101 - D 121

SR series B&BR type

Hydraulic Diaphragm Dosing Pump

Suitable for use when the dosed liquid is of abrasive type with small amounts of solids in suspension or is a toxic solution.

Every pump is fitted a standard gearbox reduction system and with vertical mounted B14 shaped electric motor in accordance with the UNEL-MEC specifications.

The motor power range is from 0.18 Kw up to 0.75 Kw a the at European standard: 3 phase voltages of 230/400V @ 50/60Hz, 4 poles and 1 phase voltages of 230/50-60Hz or 110/60Hz.

As motors conform to UNEL-MEC specifications, there are many alternative options available, including different voltages, insulation class and special explosion proof versions.

The gearbox is a standard wormwheel reduction system with all bearings supported within a fully lubricated gearbox.

The mechanism for variation of the stroke length is a positive stroke spring return that is operated by an eccentric.

Max. capacity L/h	
B & BR 125 N	108
B & BR 175 N	418
B & BR 250 N	1068

Fittings

- Polyethylene tanks
- Relief valves and back pressure valves
- Safety relief valve
- Injection valve
- Fout valve
- Hydropneumatic accumulators
- Calibration pot

DOSEURO

SR series SD type

Sandwich Hydraulic Diaphragm Dosing Pump

Sandwich Hydraulic Diaphragm pumps are suitable for use when: the dosed liquid contains small amounts of suspended solids, abrasive or toxic solution and when plunger lackage is not accepted. Is included on the pump a safety valve for guarantee the diaphragm security against over pressure. The characteristics of this pump is the special sandwich diaphragm and the reliable rupture detention .
Each pump has a standard gearbox reduction system and is available with an IEC B14 electric motor that meets UNEL – MEC specifications.
The motor power range is from 0.18 Kw up to 0.75 Kw.
There are many options available including different voltages, insulation classes and special explosion proof versions.
The gearbox is a standard wormwheel reduction system with all bearings supported within a fully lubricated gearbox.
The mechanism for adjusting the stroke length is a positive stroke spring return that is operated by an eccentric..

Max. capacity L/h	
SD 125 N	108
SD 175 N	418
SD 250 N	1068

Fittings

- Polyethylene tanks
- Relief valves and back pressure valves
- Safety relief valve
- Injection valve
- Fout valve
- Hydropneumatic accumulators
- Calibration pot

SD 125 N

SD 175 N

SD 250 N

DOSEURO

SR series FM type

Spring Return Mechanical Diaphragm Dosing Pump

Mechanical Diaphragm pumps are suitable for the applications in which:

- the dosed liquid contains small amounts of particles in suspension
- the dosed liquid contains toxic solutions
- a drip proof/air tight application is required
- high pressures are not required

Each pump is built with a standard gearbox reduction system and a vertically mounted B14 shaped electric motor in compliance with UNEL-MEC specifications.

Motors power is usually 0,09 Kw with 4 poles: 3-phase 230/400 Volts 50/60 Hz, and single phase 230V/50 Hz or 110V/60 Hz.

As they are motors complying to UNEL-MEC specifications, there are many available options with different voltages, frequencies and insulation classes, whereas explosion proof versions are not allowed.

The gearbox is worm wheel type and helicoidal reduction system with all bearings supported within a fully lubricated gearbox.

The mechanism for the variation of the capacity is spring return based operated by an eccentric; this makes the diaphragm move forward (pushing phase) for all the stroke length, while the spring in continuous tension causes the comeback of the diaphragm (suction phase).

Max. capacity L/h	
FM 050-30	14
FM 050-50	47

Fittings

- Polyethylene tanks
- Relief valves and back pressure valves
- Safety relief valve
- Injection valve
- Fout valve
- Hydropneumatic accumulators
- Calibration pot

FM 050-30

FM 050-50

SDP series S type

Solenoid Dosing Pumps

The SDP family provide an alterative solution in lower rates application field where end users look forward reliable results and simple operation.
Use of integrated microprocessor and related flexibility makes the SDP family extremely complete and suitable in such many different cases of constant and proportional dosage with a bounded number of models providing:

- Foot mounted dosing pump
- Corrosion-proof reinforced polypropylene housing
- Solid PTFE diaphragm
- Water-resistant IP65 protection
- Wide choice of liquids and materials:PP; PVC; S.S.316; PTFE; PVDF
- Standard power supply:
  230V 50/60 Hz
  On request: 24V d.c., 12V d.c., 24V a.c.,110V 50/60 Hz

All chemical dosing pumps are complete of accessories to improve the operating and accuracy of the chemical dosing pump:

- Injection valve
- 1,5 suction pipe
  1,5 delivery pipe
- Strainer

Max. capacity L/h	
S	22

Fittings

- Polyethylene tanks
- Relief valves and back pressure valves
- Safety relief valve
- Injection valve
- Fout valve
- Hydropneumatic accumulators
- Calibration pot

SPH

SML

SMM

H series HA&HB type

Automatic plants for dissolution and preparation of powder polyelectrolytes

These plants produce from 300 to 5000 lt/h of fully polyelectrolyte solution at constant solution strength from powder stock. Their compact design in Stainless steel AISI 304 includes all necessary controls for water make up and powder feed and incorporates the following equipment and features:

Dissolution, diluition and ageing tanks.
Powder and water feed rate controls.
All mixers.
Control panel, fitted and fully interwired.
Polyelectrolyte chemical dosing pumps.

Max. capacity l/h	
From	300
Up to	5000

HA

DOSEURO

EM series DMT, DMM, DEM, DRV, DRC type

Electric mixers for chemical mixing

Type DMT and type DMM

High speed mixers directly coupled to the motor, for small tanks up to 1000 litres capacity, with polypropylene protected shaft and propeller.

Type DEM

High speed mixers, directly coupled to the motor, but with lantern ring, bearings and protective seals.

Type DRV

Slow speed mixers for light applications, with close coupled worm/ gear reduction gear box.

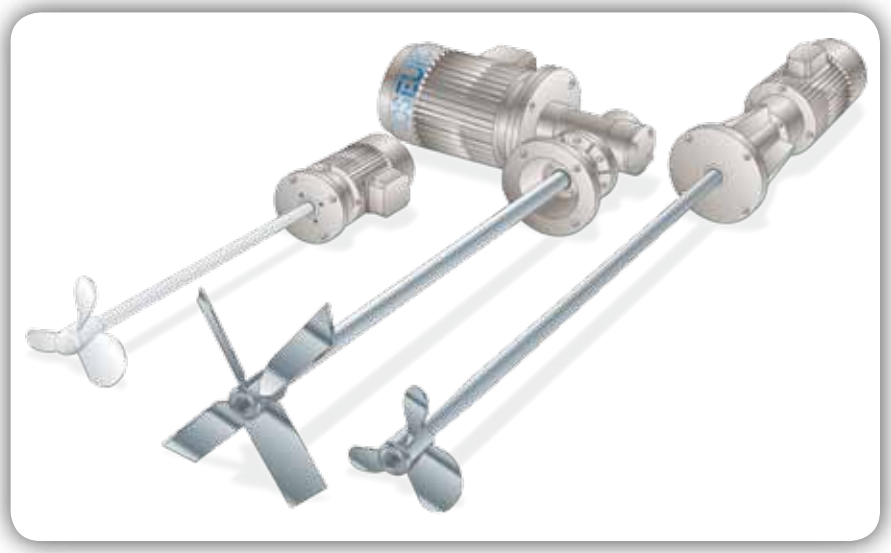
Type DRC

Heavy duty slow speed mixers with directly coupled motors via a lantern ring, outrigger bearings and protective seals.

Type	
DMT	Fast mixer
DMM	Fast mixer
DEM	Fast mixer
DRV	Slow mixer
DRC	Slow mixer

Fittings

- Wide range of propellers



DOSEURO

Accessories

Safety relief valve

Relief valves and back pressure valves

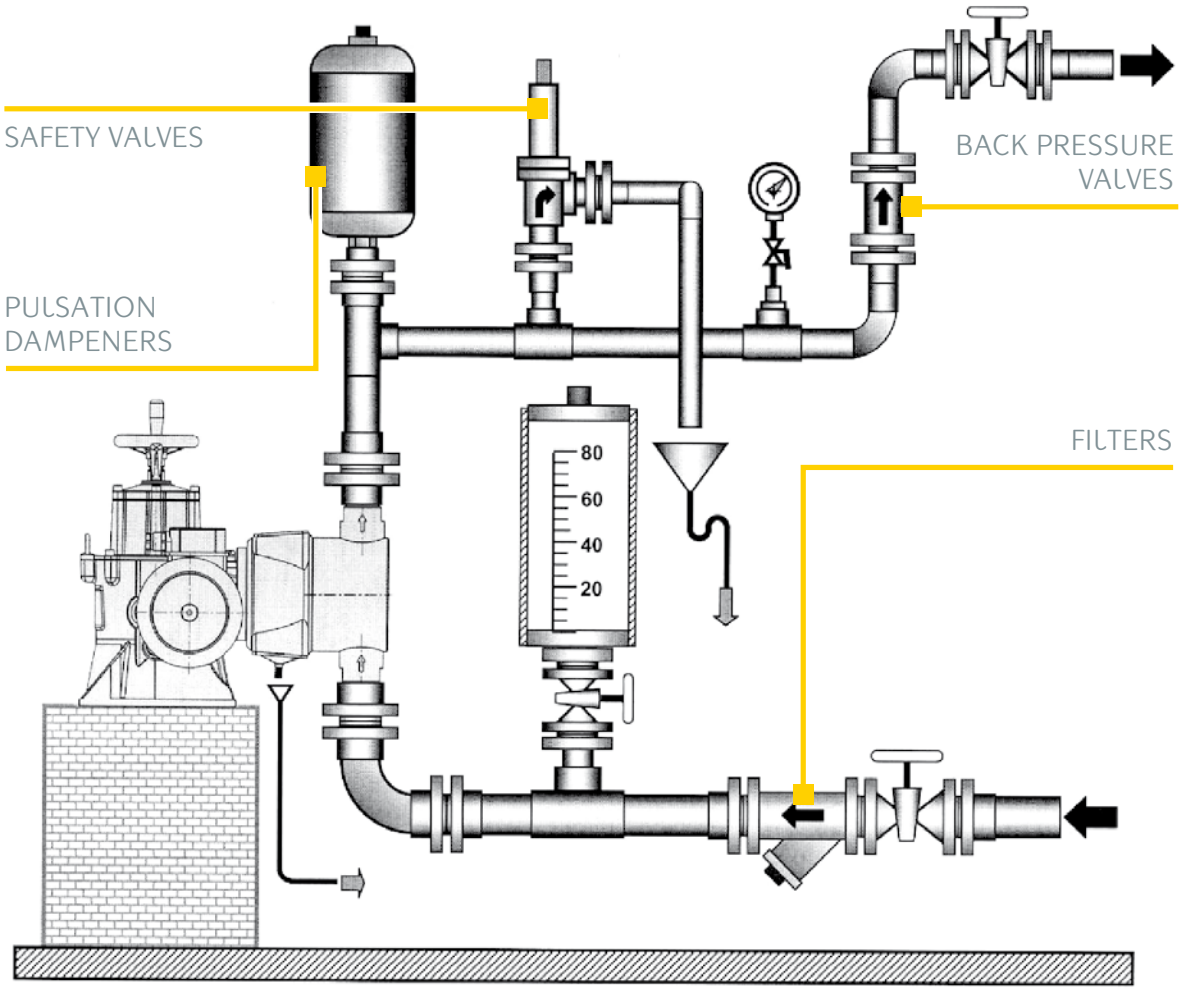
Polyethylene tanks

Suitable to be fitted with metering pump on its top

Pulsation dampeners

Type: HSTX
Body in S.S.316, composed by two parts assembled together by means of a special hosing that, under dynamic pressures, tends to close itself. Diaphragms to suit the chemicals in use. Built accordingly to the ASME VIII° Div. 1 rules.

Type: HSTPVC
Body in PVC, composed by two parts assembled together by means of a special hosing that, under dynamic pressures, tends to close itself. Maximum temperature: + 50 °C. Diaphragms to suit the chemicals in use.


SAFETY VALVES
PULSATION DAMPENERS
BACK PRESSURE VALVES
FILTERS
80
60
40
20

Cert. n° 5942

DOSEURO®

The right dosing choice

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