

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 solid technical knowledge, obtained during a multi-year experience in the dosing field, while the second is a commercial understanding of the changes in this field and sensitivity to our customers' requirements. These two factors are supported by a strong company structure that meets 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 thousands of plants working worldwide with our pumps.

The product

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

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

Each dosing pump model 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 reduction system, made of an endless screw coupled to a worm-wheel, makes the gearbox very strong.

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

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





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. High pressure pumps are available too,

upon request. The range also includes various driving methods, such as electric motor or electromagnetic solenoid operation. The company also manufactures complete dosing packages, electric mixers, and fully automatic plants for the dissolution

and mixing of polyelectrolyte, both as powder and emulsion.

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



FOOD PRODUCTION



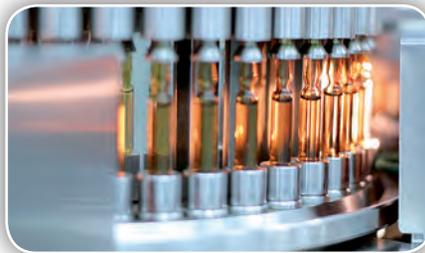
PAPER INDUSTRY



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.

Minimum required NPSH depends on installed pump-head type.

Max. capacity L/h	
A-I 175	408
A-I 250	1645
A-I 350	3800
AP A-I 175	44
AP A-I 250	164
AP A-I 350	470

Fittings

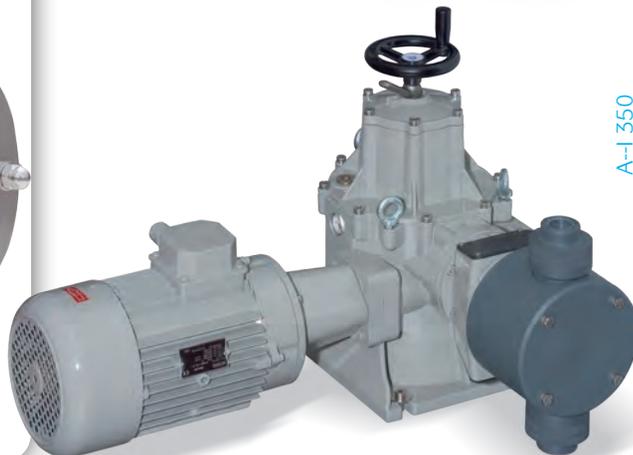
- Relief valves and back pressure valves
- Safety relief valve
- Injection valve
- Foot valve
- Pulsation dampeners
- Calibration pot



A-I 175



A-I 250 ATEX



A-I 350





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.

A built-in safety valve is installed in the hydraulic circuit, in order to protect the diaphragm against over pressure. The peculiarity of this pump is the special sandwich diaphragm and the reliability of the diaphragm rupture detection system. Accuracy is better than 1% from 10 to 100% of the stroke adjustment.

Max. capacity L/h	
SD I 175	400
SD I 250	1561
SD I 350	3508
AP SD I 175	247
AP SD I 250	711
AP SD I 350	1496

Fittings

- Relief valves and back pressure valves
- Safety relief valve
- Injection valve
- Foot valve
- Pulsation dampeners
- Calibration pot



SD I 175



SD I 250 ATEX



SD I 350



SR series A type

Spring Return Plunger Dosing Pumps

Plunger metering pumps are suitable in case that:

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

Each pump is fitted with 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 available alternative options, including different voltages, insulation classes 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
- Foot valve
- Pulsation dampeners
- Calibration pot

The reduction gearbox is of a standard endless screw plus worm-wheel type, supported by bearings, fully lubricated in an oil-bath.

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



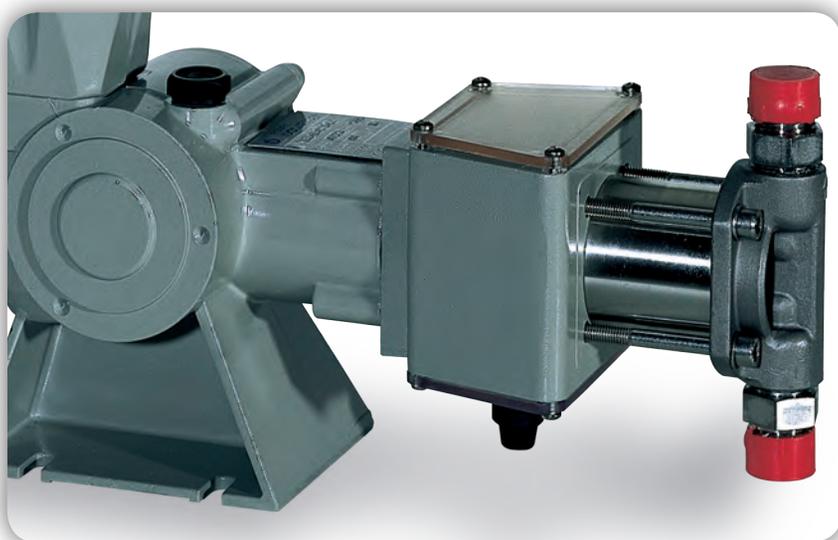
A 125 A



A 175 N



A 250 N





SR series D type

Spring Return Mechanical Diaphragm Dosing Pump

Mechanical Diaphragm pumps are suitable in case that:

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

Each pump is fitted with 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 available alternative options, including different voltages, insulation classes and special explosion proof versions.

The reduction gearbox is of a standard endless screw plus worm-wheel type, supported by bearings, fully lubricated in an oil-bath.

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

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

Fittings

- Polyethylene tanks
- Relief valves and back pressure valves
- Safety relief valve
- Injection valve
- Foot valve
- Pulsation dampeners
- Calibration pot



D 050 N



D 100 N



D 101 N - D 121 N



SR series B & BR type

Hydraulic Diaphragm Dosing Pump

Suitable in case that

- The dosed liquid contains small amounts of suspended solids
- The dosed liquid is a toxic solution
- A drip proof/air tight application is required

Every pump is fitted with 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 at the 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 available alternative options, including different voltages, insulation classes and special explosion proof versions.

The reduction gearbox is of a standard endless screw plus worm-wheel type, supported by bearings, fully lubricated in an oil-bath.

The mechanism for the variation of the stroke length is a positive fore-stroke, spring return type, 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
- Foot valve
- Pulsation dampeners
- Calibration pot



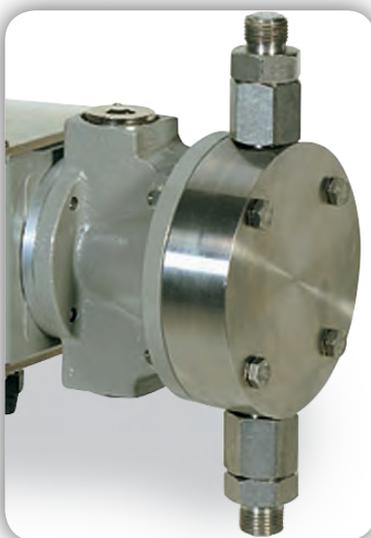
B 125 N



BR 125 N



B 175 N



B 250 N



SR series SD type

Sandwich Hydraulic Diaphragm Dosing Pump

Sandwich Hydraulic Diaphragm pumps are suitable in case that:

- The dosed liquid contains small amounts of suspended solids
- The dosed liquid is a toxic solution
- No leakage is accepted

A built-in safety valve is installed in the hydraulic circuit, in order to protect the diaphragm against over pressure. The peculiarity of this pump is the special sandwich diaphragm and the reliability of the diaphragm rupture detection system.

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 available options including different voltages, insulation classes and special explosion proof versions.

The reduction gearbox is of a standard endless screw plus worm-wheel type, supported by bearings, fully lubricated in an oil-bath.

The mechanism for the variation of the stroke length is a positive fore-stroke, spring return type, 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
- Foot valve
- Pulsation dampeners
- Calibration pot





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 suspended particles
- the dosed liquid is a toxic solution
- 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 the motors comply to UNEL-MEC specifications, there are many available options with different voltages, frequencies and insulation classes, whereas explosion proof versions are not allowed.

The reduction gearbox is of a standard endless screw plus worm-wheel type, supported by bearings, fully lubricated in an oil-bath.

The mechanism for the variation of the stroke length is a positive fore-stroke, spring return type, that is operated by an eccentric; this makes the diaphragm move forward (discharging 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
- Foot valve
- Pulsation dampeners
- Calibration pot





SDP series S type

Solenoid Dosing Pumps

The SDP family provide an alternative solution in lower rates application field where end users look forward reliable results and simple operation.

Using a built-in microprocessor, with its own flexibility, makes the SDP series extremely complete and suitable for a wide range of applications, thanks to several functions included in the same pump, even with few models.

Common features for every model:

- Foot mounted dosing pump
- Corrosion-proof reinforced polypropylene housing
- Solid PTFE diaphragm
- Water-resistant IP65 protection
- Wide choice of wetted 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 operation 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
- Foot valve
- Pulsation dampeners
- Calibration pot



SMF



SML



SMM

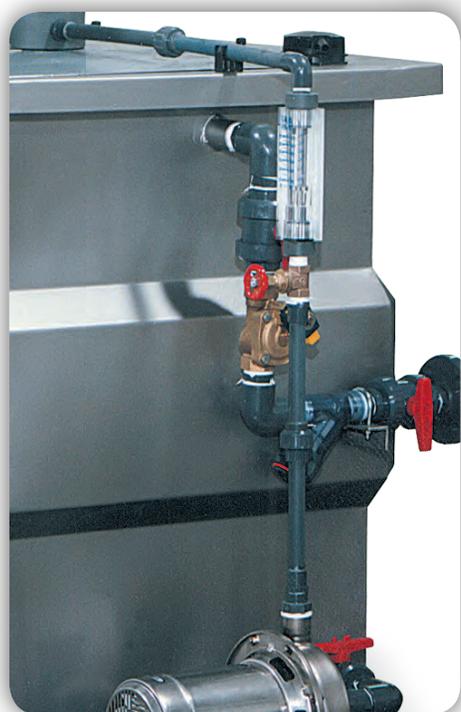


H series HA, HB & HE type

Automatic plants for dissolution and preparation of powder/emulsion polyelectrolytes

These plants produce from 300 to 5000 lt/h of fully polyelectrolyte solution at constant solution strength from powder /emulsion stock. Their compact design in Stainless steel AISI 304 or High Density PolyPropylene includes all necessary controls for water make up and polymer feed and incorporates the following equipment and features:
Dissolution, dilution and ageing tanks.
Polymer 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



The Powder dilution plant is fitted with a stocking hopper and a volumetric endless screw, while the Emulsion dilution plant works thanks to a Plunger metering pump, dosing the Emulsion into a static mixer





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 coated shaft and propeller.

Type DEM

High speed mixers, directly coupled to the motor, supported by a protection lantern, housing an extra bearing kit, for increased shaft stability, and an extra seals kit, for increased protection from the mixed chemical.

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

Fittings

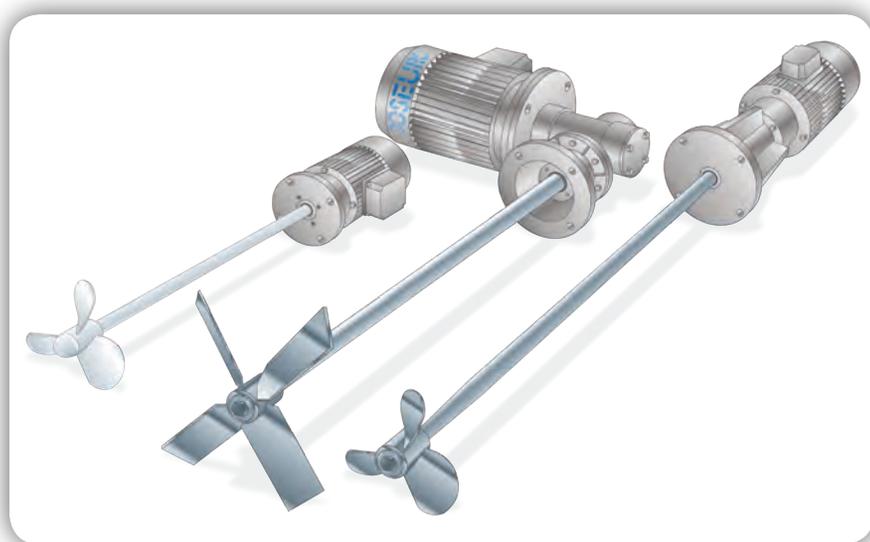
- Wide range of propellers

Type DRV

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

Type DRC

Heavy duty slow speed mixers with co-axial reducer, outrigger bearings and protective seals.





Accessories

Safety relief valve



Relief valves and back pressure valves



Polyethylene tanks



Suitable to be fitted with metering pump on its top

Pulsation dampeners



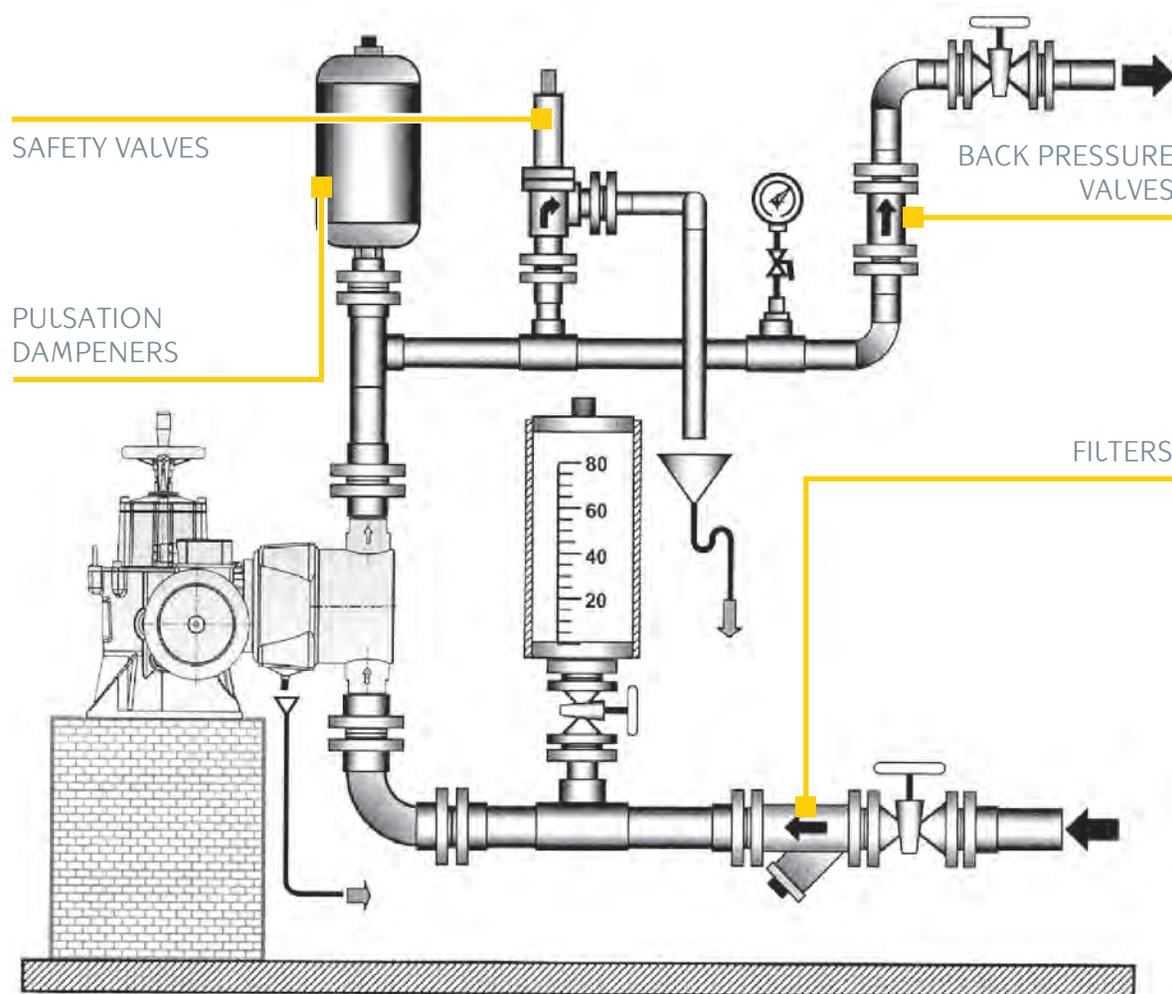
Type: HSTX

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. Various diaphragm materials available, for wide chemical compatibility. 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. Various diaphragm materials available, for wide chemical compatibility.





Cert. n° 5942



DOSEURO®

The right dosing choice

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