LAGOA

› DOSING PUMPS

www.pcm.eu
The PCM range of dosing pumps includes mechanical diaphragm dosing pumps, plunger pumps, systems with actuated valves and complete skids of integrated dosing systems.

**LAGOA SERIES**

The Lagoa series is designed for metering a wide variety of products in chemical engineering, environmental applications as well as the food and personal care industries.

**OPERATION**

The Lagoa pump is composed of a membrane connected to a piston of which the alternating movement successively fills and empties the pumphead.

1. The backward movement of the membrane opens the bottom check valve and allows the entry of fluid, which fills the pumphead.
2. The forward movement of the membrane closes the bottom check valve, opens the top check valve and expels the dose.

**TECHNICAL DATA**

- Maximum flow: 350 l/hr per pumphead
- Adjustable from 10 to 100%
- Maximum pressure: 12 bar
- Maximum temperature: 90°C
- Speed: 48 and 120 strokes/min
- Precision: ± 1%
- Linearity: ± 3%
- Deliverable within 2 to 6 days.
LAGOA

DIAPHRAGM DOSING PUMPS

Applications

The Lagoa series is designed for metering a wide variety of products in chemical engineering, environmental applications as well as the food and personal care industries.

1 Drive.
The pump is driven by a direct mounted light alloy motor with IP55 protection. The bearings are greased for life, making the motors maintenance-free.

2 Diaphragm.
Preformed type, made of PTFE reinforced with elastomer. The liquid contact part is in chemically inert PTFE.

3 Stroke adjustment.
The capacity is set by turning the micrometer dial which is fitted with vernier scale graduated in percentage stroke length. Electric servo control can be fitted.

4 Casing.
Robust cast aluminium alloy construction.

5 Pumphead.
The pumphead is easy to remove and change. It consists of:
- 1 suction check valve
- 1 discharge check valve
- 1 liquid end body
Pumpheads are available in many material combinations. Note: other versions are available on request.

6 Locking device.
The stroke adjustment mechanism can be locked in position to ensure that stroke length remains at its set point.

ACCESSORIES AND OPTIONS

- Foot valves
- Injection rod
- Safety and retention valves
- Pulsation dampers
- « Ready-to-meter » assemblies
- Dosunits

Please contact us

ADVANTAGES

Design:
• Simple and robust construction
• Reliability of metering
• Adaptable: meters a wide range of fluids
• Simplified maintenance
• Dry running

Electro-mechanical drive:
• Reduced mechanical and hydraulic shocks
• Silent

Pump on filtering pallet (wine production). Metering of soda and acid. Ferric chloride pumping in purification station.
INDUSTRIES AND APPLICATIONS

➤ ENVIRONMENT

➤ MECHANICAL ENGINEERING
Oil water mixtures, laminoire wastes, cutting oil, engine lubricants, engine lubricant wastes, waste oil, spent baths, lead paste, washcoat, slop, colloidal silica, water-glycol deicing, glycol, resin, hardener.

➤ CHEMICALS
Glues, paints, varnishes, polymer, flue gas desulphurization, fiber production, colloidal silica, latex, pigment slurry, plasticizers, emulsion, zeolite, binder, sizing.

➤ NEW ENERGIES
Oil, biodiesel, musts, vinasses, coal water mixtures, glycerin & methanol, soapstock, liquid manure, waste ion-exchange resin, dispersant, stabilizer, slurry from flue gas desulfurization (FGD).

➤ MINERALS
Mineral slurries, explosive preparation, polymer, pulp, grouts, mortars, refuse derived fuels, chrome VI reduction, coloring agent, sludge.

➤ FOOD
Sugars & Starches (Transfer of sugar, glucose, honey, pulp, syrup, molasses, thick juices, liquor, flocculent, starch, starch milk, gluten).

➤ PAPER
Mineral slurries (kaolin, talc, bentonite, calcium carbonate, titanium dioxide), binders (starch, casein, AKD, PVA, CMC, latex), additives (retention agents, dispersants, optical brighteners), coating color, polymer.