LAGOA

DOSING PUMPS

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PCM range of dosing pumps consists of mechanical diaphragm dosing pumps with actuated valves.

**OPERATION**

The Lagoa pump is composed of a membrane connected to a piston which 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: 315 l/hr per pumphead
- Adjustable from 10 to 100%
- Maximum pressure: 12 bar
- Maximum temperature: 90°C
- Speed: 46 and 111 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 chemicals in various industries from waste water treatment to mechanical or mining 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.

The capacity is set by turning the micrometer dial which is fitted with vernier scale graduated in percentage stroke length.

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.

Pumphead type:
- Polypropylene
- PVC
- Stainless steel
- PVDF

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
- Multiplexing

ADVANTAGES

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

Electro-mechanical drive:
- Does not cause and is not affected by interference
- Reduced mechanical and hydraulic shocks
- Silent
INDUSTRIES AND APPLICATIONS

ENVIROMENT
Chemicals agents, lime milk, polymer, Ferric chloride, Aluminum chloride, PAC, WAC, Nutrient, Scum, Foam, Acids, Alkalinnes.

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.