

LMI range

# Maximum adaptability



Electromagnetic  
dosing pumps

Compact and innovative,  
accurate and versatile

# LMI pumps

Well-measured solutions

Proven precision, compactness, strength and adaptability

For over a quarter of a century, LMI dosing pumps have been providing precise feed control in water treatment applications all over the world.

Their outstanding flexibility has also proven itself in many other industries. Their reputation for reliability has steadily opened up new fields of application, including some unexpected ones!

Thanks to our use of ever more technical and versatile materials, the list of aggressive substances these pumps are capable of handling keeps growing.

The functional evolution of the LMI range of pumps, from manual mode to proportional or programmable mode, has resulted in solutions that have been proven not only for water treatment, but also in industry, where applications are most complex.

## Open solutions

APPLICATIONS



Water treatment at all stages of the supply and sewage cycle, agricultural fertiliser injection systems, industrial production lines for paper mills and food processing plants for example, swimming pool treatment and conditioning... LMI dosing pumps are used in so many applications it would be impossible to list them all: every day brings new proof of their much-appreciated versatility.



Series P



Series A



Series B

Series C



Series J



# Efficiency

7 key factors

## Guided tour of LMI benefits

**LMI pumps are used to inject precise quantities of a chemical product in a treatment process. A single moving part displaces the diaphragm. This mechanical design draws very little power and enables the pump to be hermetically sealed, making it suitable for use in extremely aggressive environments.**

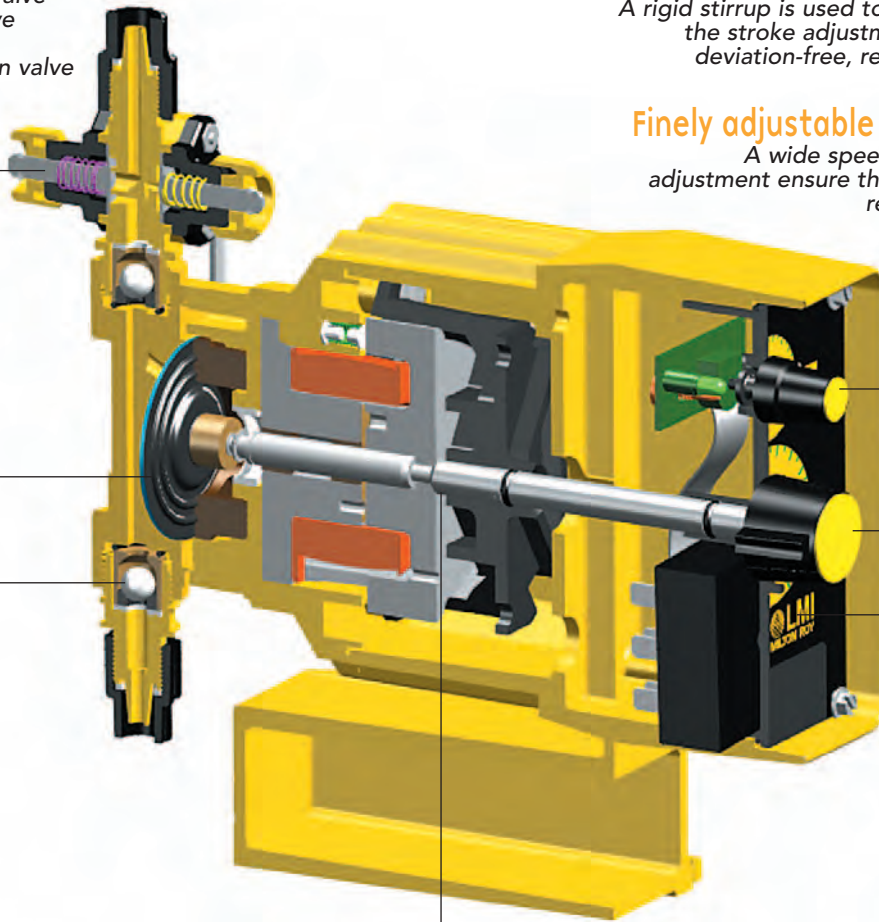
### Strength of the Fluorofilm® diaphragms (PTFE/PFA)

Excellent resistance to wear and highly aggressive products.

### Flexible multipurpose valves

Adaptable bleed valves and safety valves on most feed pumps

- back pressure valve
- anti-siphon valve
- bleed valve
- depressurisation valve



### Protected electronics

The electronic circuitry is totally protected by resin potting, making it highly resistant to vibrations and corrosive atmospheres. A wide range of external controls is available.

### High-precision stroke adjustment

A rigid stirrup is used to accurately position the stroke adjustment stop, to ensure deviation-free, repeatable operation.

### Finely adjustable operating rate

A wide speed range and precise adjustment ensure that the exact dosage required is delivered.

### Safe cartridge valves

Accurate guiding and three-stage seat (three separate seals) for enhanced precision.

### Efficient, long-lasting electromagnetic power unit (EPU)

The drive system is designed around a dynamically spring-balanced electromagnet. This improves efficiency and service life while minimising power consumption.

# Dosing pumps

## 5 control modes, 5 options

LMI range

Corrosion-resistant plastic casings



Mode 0

### Economic dosing

Output variable  
from 20 to 100%

Fixed speed and manually adjustable stroke.  
The simplest electromagnetic pump in the LMI range.



Mode 1

### Adjustable dosing

Output variable  
from 1 to 100%

Manually adjustable speed and stroke.  
This operating mode allows a wider output range.



Mode 5

### Proportional dosing

This version can be used in two different ways:

- Manually adjustable speed and stroke.
- Stroke speed controlled by a dry contact from a water meter or pulse-generating device.

The pump speed varies automatically according to the signal transmitted. Optional 'low level' safety device to prevent depriming.

### Automatic dosing

Two options:

- Manually adjustable speed and stroke.
- Pump speed changes automatically to match the primary flow. Controlled by a dry contact or open collector from a water meter or pulse-generating device.

The pump can be adapted for several control modes using the optional MICROPACE® adapters - multipliers, dividers and 4-20 mA converters. Optional 'low level' safety device to prevent depriming. Electronically adjustable power control on series B and C models.



Mode 7

### Microprocessor-programmed dosing

Manually adjustable speed and stroke from 1 to 6,000 strokes/hour. All of the dosing pump's controls are accessed via a flexible keypad and an LCD display. Controls include: remote start/stop, pulse-controlled proportional operation, internal multiplier and divider, control by configurable 4-20 mA signal, pulse copying and alarm relays. 'Low level' alarm. Optional flow self-monitoring feature. Electronically adjustable power control.



Mode 9

