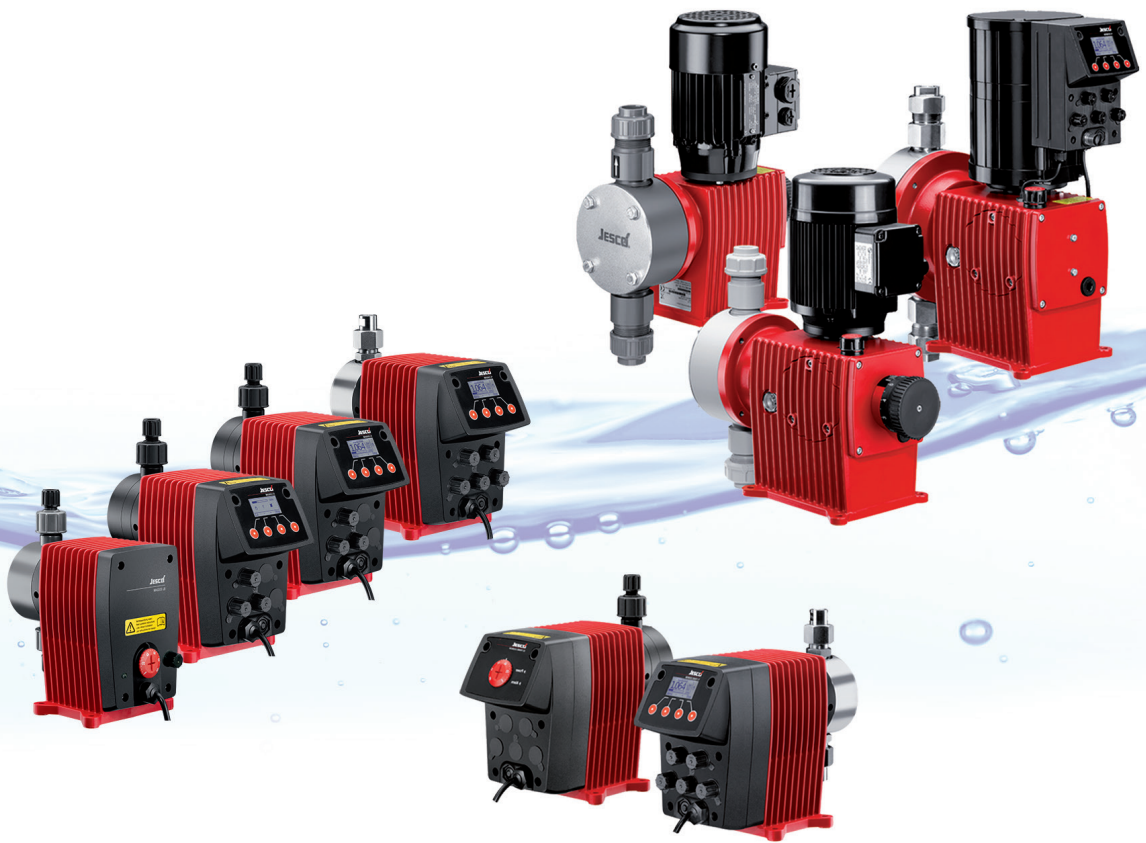


A measured step forward

Time for change



Lutz-Jesco Dosing pumps
Made in Germany

Dosing | *Liquids*
Conveying | *Gases*
Control | *Systems*

Time for change



A new era

The Smart series

Stepper motor-driven diaphragm dosing pumps 2.4 – 30.7 l/h up to 20 bar

The All-rounder series

Solenoid-driven diaphragm dosing pumps 0.5 – 15 l/h up to 16 bar

The Revolutionary series

Motor-driven diaphragm dosing pumps 4 – 1020 l/h up to 16 bar

The Robust series

Motor-driven diaphragm dosing pumps 3 – 8000 l/h up to 10 bar

The Strong series

Piston dosing pumps 0.2 – 8200 l/h up to 400 bar

The Flexible series

Peristaltic pumps 7 – 9000 ml/h up to 2 bar

The subtle difference

Operation - Visualisation - Programming

A user interface for all new dosing pumps



- 100% user-friendly
- Intuitive operation via multifunction keys
- Clear menu structure
- Multi-language graphic display with a high contrast

Well thought-out down to the smallest detail

Material consistency from the suction line to the injection nozzle



- Available in all common materials
- Makes operation easier
- Increases operating safety

Lutz-Jesco online tools

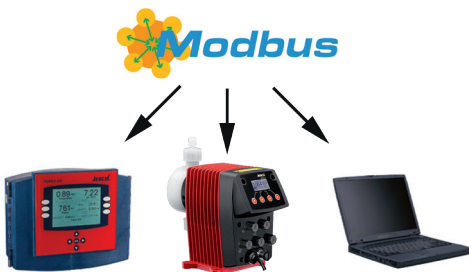
Fast results with the online tools



- MAGDOS LD calculation wizard
- MEMDOS SMART LD calculation wizard
- Suction line calculation
- Pressure peak calculation
- Pressure loss calculation

Modbus - Networked with progress

The future of industrial communication - the Industrial Ethernet



- Industrial Ethernet via MODBUS-TCP
- Expensive special equipment is no longer needed
- Easy identification of devices through a freely adjustable IP address
- Remote control and diagnosis of the pump is available via the controller (TOPAX DX), PLC and microcontroller
- Enables optimum system automation

The All-rounder series

MAGDOS - Solenoid-driven diaphragm dosing pumps 0.5 – 15 l/h up to 16 bar



Reliable dosing of chemicals

The solenoid-driven diaphragm dosing pump MAGDOS stands for dosing without compromises. Thanks to a number of the various pump types there is the right individual solution for every application, also for the highest demands.

The power ranges cover from 0.5 – 15 l/h with back pressures up to 16 bar. Double-ball valves ensure exact dosing. The dosing power can be adapted by varying the stroke frequency manually, via an external control contact or using a 0/4 – 20 mA signal.

Several different materials and connections are available for suction and discharge side, depending on the specific applications.

Accessory sets consisting of a hose, injection nozzle and suction line are available to ensure the best outcomes and quick installation.

Easy handling

Thanks to the sturdy, maintenance free solenoid drive, the media being supplied (acids, alkalis, coagulants and flocculants, for example) are reliably and accurately dosed.

The MAGDOS does not just impress with their elegant design. The MAGDOS is available with a graphic display and multi-language menu. The operation of the dosing pump via the integrated keyboard simplifies their use.

The MAGDOS is also available with an optional Ethernet interface. The stroke frequency, number of strokes, runtime, batch and much more can be controlled via the network interface module. Errors and malfunctions are transmitted from the pump.

The compact structure of the MAGDOS means that it requires a small installation surface. This enables its problem-free integration in smaller compact dosing systems. Depending on the requirements, the pump can be fitted in three different positions: standing, oriented to the left or right and fitted on the wall.

Overview of functions

MAGDOS	LB	LD	LA	LK	LP
Dosing head ventilation (plastic version)	•	•	•	•	•
Graphic display (*with multi-language menu)	-	•	•	•*	•*
Password protection	-	•	•	•	•
Supply amount displayed in various units	-	-	-	•	•
Calibration function	-	-	-	•	•

Operating modes	LB	LD	LA	LK	LP
Manual control 0 – 100 %	•	•	•	•	•
External control with pulse increase and reduction	-	•	-	•	•
External control with pulse water meter, PPM u. PERC	-	-	-	•	•
Batch dosing with interval and *timer functions	-	-	-	•	•*
External control via standard signal 0/4 – 20 mA	-	-	•	-	•

Inputs and outputs	LB	LD	LA	LK	LP
Release input (external start/stop)	•	•	•	•	•
Level input with early warning and *main alarm	•*	•	•	•	•
Stroke feedback output	-	-	-	•	•
Alarm message	-	-	-	•	•
Input for flow control	-	-	-	-	•
Diaphragm rupture detection (optional)	-	-	-	-	•
Ethernet interface (optional)	-	-	-	-	•

The Smart series

MEMDOS SMART -

Stepper motor-driven diaphragm dosing pumps 2.4 – 30.7 l/h up to 20 bar



LB



LD



LK



LP



Reliable dosing of chemicals

The stepper motor-driven diaphragm dosing pump MEMDOS SMART provides a wide range of attractive solutions for demanding dosing tasks. Its innovative drive enables the dosing pump to dose even the smallest of residual volumes with a high degree of accuracy. Asynchronous running with various speeds of the suction and pressure stroke enables homogeneous and pulse-reduced dosing.

Available in four versions, the MEMDOS SMART provides a range of different functionalities. The capacity range covers 2.4 l/h at 20 bar to 30.7 l/h at 3 bar.

Depending on the application, various materials and connections to the pressure and suction side can be used in the dosing range. Accessory sets consisting of a hose, injection nozzle and suction line are available to ensure the best outcomes and quick installation.

Wide range of applications

The MEMDOS SMART's drive is fully adjustable. The stepper motor with its wear-free tooth belt drive, ensures a particularly gentle dosing process.

The MEMDOS SMART is also available with an optional Ethernet interface. The stroke frequency, number of strokes, runtime, batch and much more can be controlled via the network interface module. Errors and malfunctions are transmitted from the pump.

The compact structure of the MEMDOS SMART means that it requires a small installation surface. This enables its problem-free integration in smaller compact dosing systems. Depending on the requirements, the pump can be fitted in three different positions: standing, oriented to the left or right and fitted on the wall.

Overview of functions

MEMDOS SMART	LB	LD	LK	LP
Dosing head ventilation (plastic version)	•	•	•	•
Graphic display (*with multi-language menu)	-	•	•*	•*
Password protection	-	•	•	•
Supply amount displayed in various units	-	-	•	•
Slow mode for highly-viscous media	-	-	•	•
Diaphragm replacement programme	-	-	•	•
Calibration function	-	-	•	•
Operating modes	LB	LD	LK	LP
Manual control 0 – 100 %	•	•	•	•
External control with pulse increase and reduction	-	•	•	•
External control with pulse water meter, PPM u. PERC	-	-	•	•
Batch dosing with interval and *timer functions	-	-	•	•*
External control via standard signal 0/4 – 20 mA	-	-	-	•
Inputs and outputs	LB	LD	LK	LP
Release input (external start/stop)	•	•	•	•
Level input with early warning and main alarm	-	•	•	•
Stroke feedback output	-	-	•	•
Alarm relay output	-	-	•	•
Input for flow control	-	-	-	•
Diaphragm rupture detection (optional)	-	-	-	•
Ethernet interface (optional)	-	-	-	•

The Revolutionary series

MEMDOS - Motor-driven diaphragm dosing pumps 4 – 1020 l/h up to 16 bar



Reliable dosing of chemicals

The motor-drive diaphragm dosing pump MEMDOS stands for robust quality and reliable dosing results.

Due to the variety of different motors it can be used in almost every field.

From simple applications to the integration of complex systems, pumps are available. There are different variants of MEMDOS series which make working in explosive risk areas possible.

Two sizes of the MEMDOS series are available. The performance ranges from 0 – 4 up to 0 – 156 l/h for the first size, and 0 – 114 up to 0 – 1020 l/h for the second size.

Thanks to the sturdy tappet drive with manual or automatic capacity adjustment, the conveyed media such as acids, lyes, coagulants and flocculants are dosed reliably and precisely. The MEMDOS can be additionally equipped with a double-diaphragm-system. Then uncontrolled leakage of media is avoided even if the dosing diaphragm wears out.

Versatile and flexible

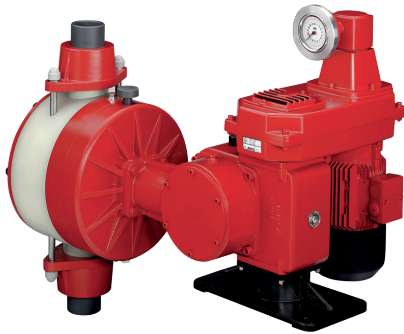
Optionally, the MEMDOS LP is available with an ethernet interface with MODBUS. It is used when the integration of the pump into controls or control circuits or the integration into demanding automation networks is required.

Overview of functions

MEMDOS	LB	LA	LP
Graphic display with multi-language menu	-	-	•
Password protection	-	-	•
Supply amount displayed in various units	-	-	•
Calibration function	-	-	•
Operating modes	LB	LA	LP
Manual with stroke length adjustment 0 – 100 %	•	-	-
Manual speed control 0 – 100 %	-	•	•
External control via standard signal 0/4 – 20 mA	-	•	•
External control with pulse increase and reduction	-	-	•
External control with pulse water meter, PPM u. PERC	-	-	•
Batch dosing with interval and timer functions	-	-	•
Inputs and outputs	LB	LA	LP
Release input (external start/stop)	-	•	•
Level input with low level alert and *main alarm	-	•*	•
Stroke feedback output	-	•	•
Alarm relay output	-	•	•
Analogue output with standard signal 0/4 – 20 mA	-	•	•
Input for flow control	-	-	•
Diaphragm rupture detection (optional)	-	-	•

The Robust, Strong and Flexible series

The Robust series, Motor-driven diaphragm dosing pumps 3 – 8000 l/h up to 10 bar



Overview

- Wide variety of materials in plastic and stainless steel
- Three-phase and alternating current drives
- ATEX versions are available for Zones 1 and 2
- Different dosing head sizes and materials can be combined on one dosing pump

Output range

- MINIDOS, Output range 3 – 39 l/h, up to 10 bar
- MIDIDOS, Output range 24 – 114 l/h, up to 10 bar
- MEMDOS MR, Output range 440 – 1980 l/h, up to 5 bar
- MEMDOS GMR, Output range 310 – 8000 l/h, up to 4 bar

The Strong series, piston dosing pumps 0.2 – 8200 l/h up to 400 bar



Overview

- Different dosing heads can be combined in different sizes and material finishes
- Manual capacity adjustment 0 – 100 %
- Dosing heads, individual or combined capacity can be adjusted

Output range

- FEDOS, Output range 0.2 – 31.5 l/h, up to 100 bar
- REKOS, Output range 9 – 840 l/h, up to 200 bar
- KARDOS, Output range 9.9 – 8200 l/h, up to 400 bar

The Flexible series, Peristaltic pumps 7 – 9000 ml/h up to 2 bar



Overview

- Different operating modes
- Rotor speed is maintained exactly at the set value
- Can be installed in a control cabinet

Output range

- Output range 7 – 9000 ml/h, up to 2 bar



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The Lutz-Jesco App for iPads and iPhone is available from the iTunes App Store. Further information on this can be found at www.lutz-jesco.com



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