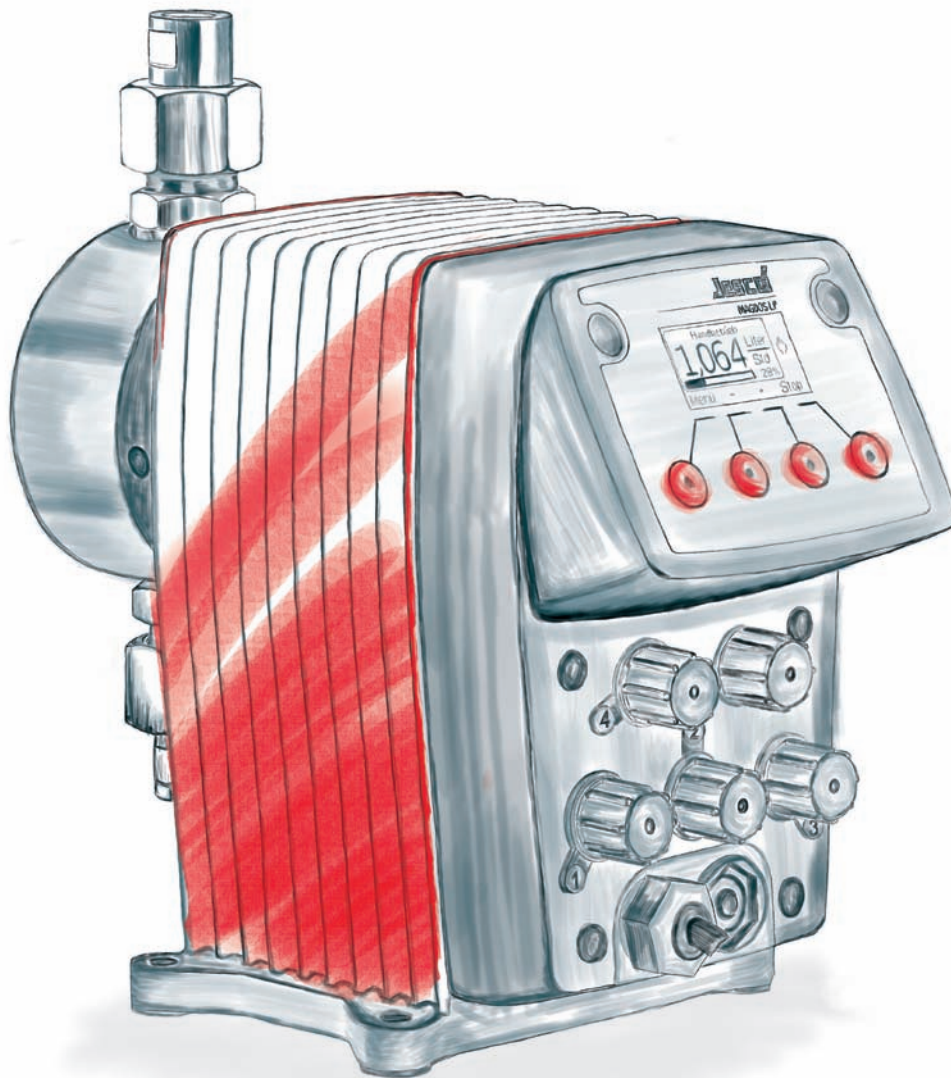


**A measured step forward**

**Time for change**



**MEMDOS SMART**  
**Stepper motor-driven diaphragm dosing pumps**  
**Made in Germany**

Dosing | Liquids  
Conveying | Gases  
Control | Systems



# The Smart series



## MEMDOS SMART - the trend steppers

### Intelligent

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- Smart Drive - microprocessor controlled drive
- Smart Stop - predefined diaphragm start position
- Diaphragm replacement programme
- Multi-language graphic display with a high contrast
- Externally controllable
- Operation via multifunction keys
- Innovative calibration function
- Integrated webservice
- Event log
- Safety function through password protection
- Integrated dosing head ventilation

### Economical

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- Precise stepper motor drive
- Low-pulsation dosing
- Maintenance-free drive
- Process reliability
- Standard thread connections
- Material consistency with the accessories
- Bus connection via the Industrial Ethernet



### Flexible

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- Slow Motion mode - delivery of highly viscous media
- Wide-range power supply unit - can be used worldwide
- Delivery units selectable
- A wide variety of applications
- Rotating dosing head
- Compact design
- Wall and floor mounting possible
- Suitable for tank and water meter installation
- Connection set supplied
- Protection class IP65

### Expandable

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- Suction lines
- Injection nozzles
- Pentabloc
- And many more accessories

# 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 standard materials
- Makes operation easier
- Increases operating safety

## 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 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 Smart series



## Capacity range 5 – 19.2 l/h, up to 15 bar

### MEMDOS SMART LB

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Compact and precise - these are key features of the stepper motor-driven diaphragm dosing pump MEMDOS SMART LB with its innovative drive concept. Equipped with protection class IP65, it is ideal for use in adverse conditions.

#### Functions

- Output range from 5 – 19.2 l/h, up to 15 bar
- Power supply unit 110 – 240 V, 50/60 Hz, IP65, 25 W
- Microprocessor controlled drive
- Integrated dosing head venting facility (only MEMDOS SMART LB 5 and LB 10 with dosing head made of plastic)
- Suitable for wall and floor mounting
- Material finishes PVC, PP, PVDF and stainless steel
- Infinitely variable stroke frequency from 0 – 100 %
- Release input for external start/stop

### MEMDOS SMART LD

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

#### Functions

- Output range from 5 – 19.2 l/h, up to 15 bar
- Power supply unit 110 – 240 V, 50/60 Hz, IP65, 25 W
- Microprocessor controlled drive
- Integrated dosing head venting facility (only MEMDOS SMART LD 5 and LD 10 with dosing head made of plastic)
- Suitable for wall and floor mounting
- Material finishes PVC, PP, PVDF and stainless steel
- Stroke frequency can be precisely adjusted via the keyboard
- Graphic display
- Pulse input (increase and reduction)
- Level input with early warning and main alarm
- Release input for external start/stop
- Calculation wizard for pulse operation available online

# Stepper motor-driven diaphragm dosing pumps



## Capacity range 5 – 19.2 l/h, up to 15 bar

### MEMDOS SMART LK

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

#### Functions

- Output range from 5 – 19.2 l/h, up to 15 bar
- Power supply unit 110 – 240 V, 50/60 Hz, IP65, 25 W
- Microprocessor controlled drive
- Integrated dosing head venting facility (only MEMDOS SMART LK 5 and LK 10 with dosing head made of plastic)
- Suitable for wall and floor mounting
- Material finishes PVC, PP, PVDF and stainless steel
- Stroke frequency can be precisely adjusted via the keyboard
- Graphic display with multi-language menu
- Pulse input (increase and reduction)
- Level input with early warning and main alarm
- Release input for external start/stop
- Supply amount displayed in various units
- Maximum delivery rate can be limited
- Diaphragm replacement programme
- One Slow Motion setup possible
- Stroke feedback output
- Alarm relay output

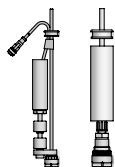
### MEMDOS SMART LP

The stepper motor-driven diaphragm dosing pump MEMDOS SMART LP provides a wide variety of attractive solutions for demanding dosing tasks. With its innovative drive, the dosing pump can carry out suction and discharge strokes at different speeds and is unbeatable in terms of its flexibility.

#### Functions

- Output range from 5 – 19.2 l/h, up to 15 bar
- Power supply unit 110 – 240 V, 50/60 Hz, IP65, 25 W
- Microprocessor controlled drive
- Integrated dosing head venting facility (only MEMDOS SMART LP 5 and LP 10 with dosing head made of plastic)
- Suitable for wall and floor mounting
- Material finishes PVC, PP, PVDF and stainless steel
- Stroke frequency can be precisely adjusted via the keyboard
- Graphic display with multi-language menu
- Analogue input and pulse input (increase and reduction)
- Level input with early warning and main alarm
- Release input for external start/stop
- Supply amount displayed in various units
- Maximum delivery rate can be limited
- Diaphragm replacement programme
- 2 Slow Motion modes for dosing viscous media
- Stroke feedback output
- Alarm relay output
- Batch dosing with interval and timer functions
- Dosing control input
- Diaphragm failure input for leak monitoring
- Ethernet interface (optional)

# Standard - accessories



## Suction lines

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Type SL-2 with ceramic reinforcement piece, cable length 3,000 mm, tube length 2,500 mm. Level monitoring and pre-alarm with 2 switching points, switching distance approx. 50 mm. Switching function: Closer on rising level, electrical connection to dosing pump via plug connector M12x1.

Flexible suction line, SA model with foot valve and load part made from ceramic and 2,500 mm hose length.



## Injection nozzles

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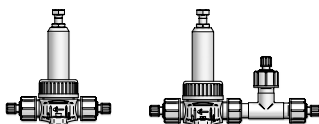
From the connection of the dosing line to the dosing point.  
Injection nozzle type R, spring-loaded, opening pressure 0.1 bar



## Suction and pressure tube

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Permissible operating pressure at 20 °C in accordance with DIN EN ISO 7751, chemical resistance and correct connection are assumed.

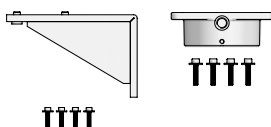


## Back pressure and pressure relief valves

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Back pressure valves to be mounted in the dosing line.  
Adjustable pressure 1 – 16 bar.

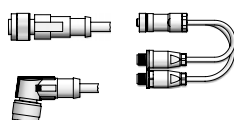
Pressure relief valves to be mounted in the dosing line.  
Adjustable pressure: Plastic 1 – 16 bar, stainless steel 1 – 25 bar.



## Wall bracket and connecting piece

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Wall bracket including mounting material for mounting pumps. Material: PP  
Connecting piece and mounting hardware required to fit the pump to a water meter.  
Material: Cast aluminium, coated



## Various cables, plugs and adapters

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Cable for: external release of pulse output A-coded, 0/4 – 20 mA and pulse input A-coded, cable for alarm B-coded, level monitoring A-coded, Ethernet network connection D-coded.

Plug connector: for retrofitting existing suction lines or level monitors.

Adapter: when using older suction lines with a 3.5 mm jack plug; when using a suction line with M12x1 plug connector.

## Lutz-Jesco online tools

### Fast results with online tools

Calculate the pressure loss in the dosing head or in the pipeline online. Or take advantage of the versatile unit conversions for the various international sizes for volume, pressure, length, etc.

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

All information and results are based on rough calculations. The results need to be checked. We assume no responsibility.



## Lutz-Jesco App

### Find out more about the new dosing pumps

Zoom into the smallest detail in the 3D view. Inform yourself about the comprehensive range of accessories and spare parts for dosing pumps.

View the product information for each version of dosing pump. Convince yourself of the easy operation of the dosing pumps with their menu simulation. Here, all parameters required for your applications can be easily set and that in 5 languages.



The Lutz-Jesco App for iPad and iPhone is from the iTunes App Store.



All other information can be found at:  
[www.lutz-jesco.com](http://www.lutz-jesco.com)

## Lutz-Jesco Service

### Always one idea ahead

As an ISO 9001 certified company, we leave nothing to chance. We have made it our mission to ensure that our products conform to the highest technological standards.

Regular cleaning and servicing of your devices does not just maintain the value of the system, but also provides protection from unanticipated failures and saves you a great deal of time, trouble and money.

As a manufacturer we offer you first-class service.

- Installation and installation support
- Commissioning and commissioning support
- Service and maintenance
- Troubleshooting





**Product range**

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P.O. Box 1462  
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www.lutz-pumpen.de



**Product range**

Lutz-Jesco GmbH  
P.O. Box 100164  
D-30891 Wedemark  
www.lutz-jesco.com



Barrel and container pumps



Dosing pumps



Measuring and control equipment



Flow meters



Chlorinators



Disinfection



Double diaphragm pumps



Chemical centrifugal pumps



Standard plus



Centrifugal pumps



**TECHNOPOL**

Products for the disinfection of swimming pool water based on salt water electrolysis and domestic water technology



The Lutz-Jesco App for iPad and iPhone is available from the iTunes App Store. Further information can be found at [www.lutz-jesco.com](http://www.lutz-jesco.com)



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