



| Double diaphragm pumps | Polypropylene | PVDF |
|---|---|---|
| Type/Size | AODD 1/4"<br>AODD 1/2"<br>AODD 1"<br>AODD 1 1/2"<br>AODD 2" | AODD 1/4"<br>AODD 1/2"<br>AODD 1"<br>AODD 1 1/2"<br>AODD 2" |
| Housing material: | PP (polypropylene) | PVDF (polyvinylidene fluoride) |
| Centre block material: | Polypropylene (glass fibre reinforced) | Polypropylene (carbon fibre reinforced) |
| Typical application depending on the model: | suitable for small quantities, in the laboratory sector, industrial applications as well as for drum, IBC and tank emptying, for large-scale industry and plant feeding | suitable for small quantities, in the laboratory sector, industrial applications as well as for drum, IBC and tank emptying, for large-scale industry and plant feeding |
| Typical liquids depending on the model: | chemical circulation and feed, liquids with solid particles such as paints and lacquers, electroplating liquids, solvents, acids and liquid soap, corrosive solutions and chemicals, pigment dyes and resins | chemical circulation and feed, liquids with solid particles such as paints and lacquers, electroplating liquids, solvents, acids and liquid soap, corrosive solutions and chemicals, pigment dyes and resins |
| Conformity/certification: | ⟨Ex⟩ | ⟨Ex⟩ |
| Diaphragm material: | NBR, TPC-ET + TFM (PTFE), TPV (EPDM-PP) | TPV (EPDM-PP) + TFM (PTFE), FPM |
| Max. flow rate: | 715 l/min. | 715 l/min. |
| Max. delivery head: | 80 m wc | 80 m wc |
| Max. air pressure: | 8 bar | 8 bar |
| Max. suction head (dry): | 4.5 m wc | 4.5 m wc |
| Max. viscosity: | 30,000 mPas | 30,000 mPas |
| Weight: | 1.5-34 kg | 1.9-40 kg |
| Features, functions, benefits: | ▪ plastic-based materials<br>▪ integrated muffler up to model size AODD 1”<br>▪ high hydraulic performance<br>▪ maintenance-optimised design and simple installation<br>▪ self-priming (even when dry)<br>▪ ice-free air system<br>▪ reinforced elastomers and thermoplastic diaphragms<br>▪ absolutely oil-free<br>▪ non-stalling operation<br>▪ conductive version approved according to ATEX Directive 2014/34/EU, Category 2 | |







| Aluminium | Stainless steel | Stainless steel (PURE) |
|---|---|---|
| AODD 1/2"<br>AODD 1"<br>AODD 1 1/2"<br>AODD 2" | AODD 1/2"<br>AODD 1"<br>AODD 1 1/2"<br>AODD 2" | AODD 1/2"<br>AODD 1"<br>AODD 1 1/2"<br>AODD 2" |
| Aluminium | Stainless steel 1.4404 (316 L) | Stainless steel 1.4404 (316 L) electropolished |
| Aluminium/Polypropylene (carbon fibre reinforced) | Aluminium/Stainless steel 1.4404 (316 L) | Polypropylene (glass fibre reinforced)/<br>Aluminium (food varnish) |
| Suitable for industrial applications as well as for drum, IBC and tank emptying, for large-scale industry and plant feeding | Suitable for industrial applications as well as for drum, IBC and tank emptying, for large-scale industry and plant feeding | suitable for the food, cosmetics and pharmaceutical sectors, drum, IBC and tank emptying |
| Chemicals, solvents, acids and liquid soap,corrosive solutions and chemicals | Chemicals, solvents, acids and liquid soap,corrosive solutions and chemicals | liquid foodstuffs and semi-luxury food, pharmaceutical substances and cosmetic products |
| Ex | Ex | Ex FDA |
| NBR, TPC-ET + TFM (PTFE), TPV (EPDM-PP) | NBR, TPV (EPDM-PP) + TFM (PTFE), TPV (EPDM-PP), FPM | TPV (EPDM-PP) + TFM (PTFE) |
| 715 l/min. | 715 l/min. | 715 l/min. |
| 80 m wc | 80 m wc | 80 m wc |
| 8 bar | 8 bar | 8 bar |
| 4.5 m wc | 4.5 m wc | 4.5 m wc |
| 30,000 mPas | 30,000 mPas | 30,000 mPas |
| 4-44 kg | 6-54 kg | 6-49 kg |

- metal-based materials
- integrated muffler up to model size AODD 1”
- high hydraulic performance
- maintenance-optimised design and simple installation
- self-priming (even when dry)
- ice-free air system
- reinforced elastomers and thermoplastic diaphragms
- absolutely oil-free
- non-stalling operation
- conductive version approved according to ATEX Directive 2014/34/EU, Category 2

# Dosing pumps

## Stepper motor-driven diaphragm dosing pumps

Stepper motor-driven diaphragm dosing pumps are particularly suitable for highly accurate, reproducible industrial dosing thanks to their design. Many fluid media can be safely fed into the respective processes using these pumps. The stepper motor with its wear-free tooth belt drive, ensures a particularly homogeneous and gentle dosing process.




### MEMDOS SMART LB, LD, LK, LP

**Capacity range**

2.4 – 30.7 l/h, up to 20 bar




### MEMDOS SMART LDX, LAX, LPX

**Capacity range**

2.6 – 182 l/h, up to 20 bar

## Solenoid-driven diaphragm dosing pumps

Solenoid diaphragm dosing pumps are leak-free, and are therefore suitable for highly aggressive or toxic media. Depending on the gear type, the diaphragm allows pressures up to 16 bar. Solenoid diaphragm dosing pumps have a separating chamber as standard. If a crack forms in the diaphragm due to wear, this prevents the medium from flooding the system components or the pump itself.

Modbus




### MAGDOS LB, LD, LA, LK, LP

**Capacity range**

0.5 – 15 l/h, up to 16 bar

# Dosing pumps

## Motor-driven diaphragm dosing pumps

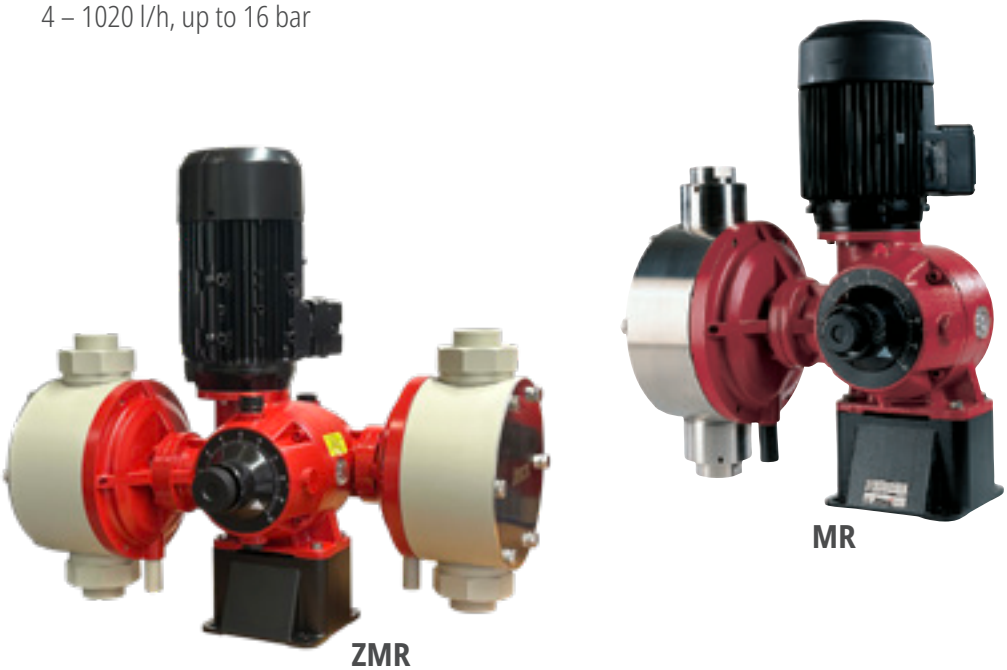
Our diaphragm dosing pumps enable the leak-free precision dosing of highly aggressive and toxic media. Depending on the gear type, the diaphragm allows pressures up to 16 bar. With robust materials and versatile applications, they represent the optimal solution for demanding dosing processes in industry and process engineering.




### MEMDOS LB, LA, LP

**Capacity range**

4 – 1020 l/h, up to 16 bar




### MEMDOS MR/ZMR

**Capacity range**

MEMDOS MR, 440 – 990 l/h, up to 5 bar

MEMDOS ZMR, 55 – 990 l/h per dosing head, up to 10 bar

## Motor-driven piston dosing pumps
## FEDOS E/DX, FEDOS LB, LA, LP and REKOS KR/ZKR

Piston dosing pumps are particularly precise dosing units, which are not dependent on pressure. The dosing capacity varies proportionally with the stroke length and can be set to the tiniest repeatable quantities. Two-piston pumps are therefore particularly suitable for delivering precise mixtures, where different media must be mixed at a constant ratio which can be selected as desired. Using externally controlled drive motors, the total quantity can be adjusted continuously between 5% and 100% at a constant ratio. Heated heads allow the dosing of media that are torpid when cold. A piston flushing skirt is available as an option, to prevent damaging leakage and protect the packing materials and pistons from abrasive substances.



**Capacity range**
FEDOS E/DX: 0.17 – 31.5 l/h, up to 100 bar
FEDOS LB, LA, LP: 0.55 – 34.2 l/h, up to 100 bar
REKOS: 9 – 840 l/h, up to 200 bar



## Motor piston diaphragm dosing pumps
## MEMDOS KMS/ZKMS

Piston diaphragm dosing pumps stand for precision and independence from pressure, making them the ideal dosing devices for precise mixing tasks. Their ability to set dosing quantities in proportion to the stroke length enables precise setting of even the smallest quantities. Moreover, externally controllable drive motors allow flexible adjustment of the total dosing quantity from 5 % to 100 % without changing the mixing ratio. These features make piston diaphragm pumps a reliable choice for demanding industrial dosing tasks.

**Capacity range**
MEMDOS KMS, 6.3 – 3072 l/h, up to 25 bar

## Peristaltic pumps
## PERIDOS FXM

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

**Capacity range**
2.8 – 840 l/h, up to 8.6 bar

