

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

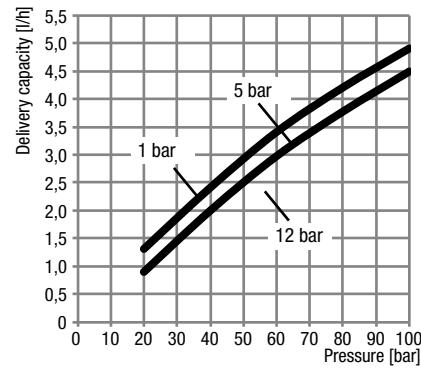
MEMDOS	LB	LA	LP
Graphic display with multi-language menu	-	-	•
Password protection	-	-	•
Supply amount displayed in various units	-	-	•
Calibration function	-	-	•
Operating modes	LB	LA	LP
Manual with stroke length adjustment 0 – 100 %	•	-	-
Manual speed control 0 – 100 %	-	•	•
External control via standard 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)	-	-	•

Technical data

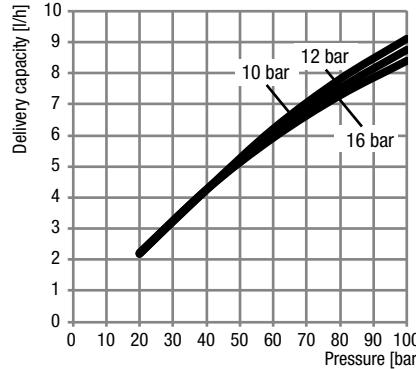
Delivery characteristic curves MEMDOS LB

These delivery capacities were determined on the manufacturer's test stands. They apply at 20 °C (68 °F) for water, at 100 % stroke frequency. The delivery capacity depends on the medium (density and viscosity) and temperature. Since these conditions vary at every installation location, you should calibrate the dosing pump.

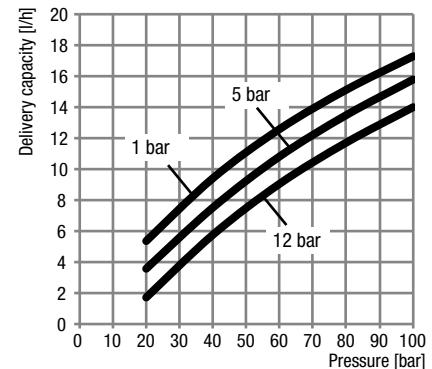
MEMDOS LB 4



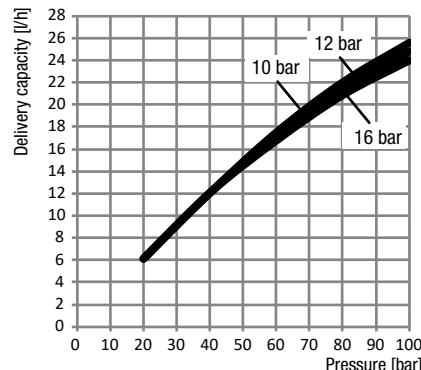
MEMDOS LB 4-HP



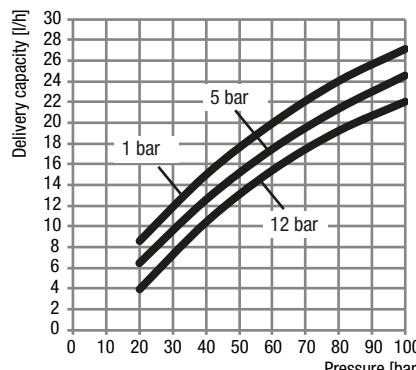
MEMDOS LB 10



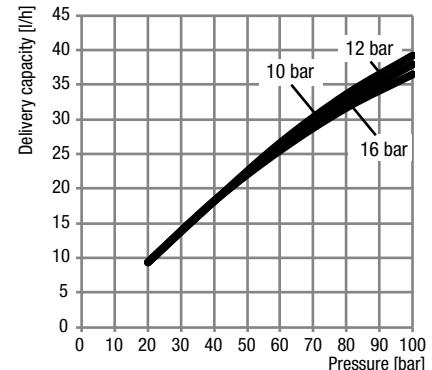
MEMDOS LB 10-HP



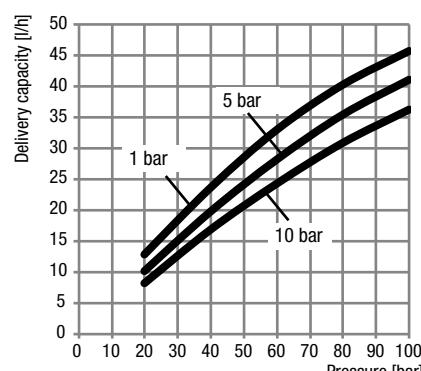
MEMDOS LB 20



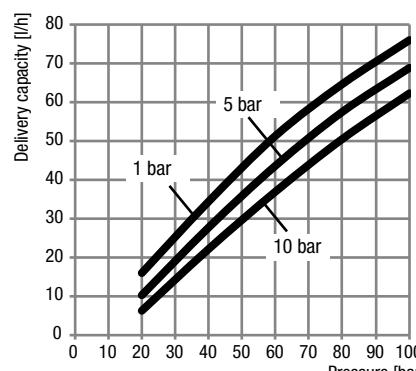
MEMDOS LB 20-HP



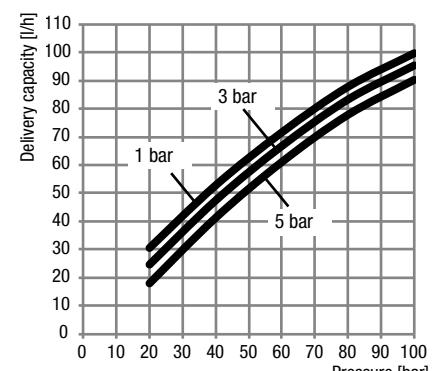
MEMDOS LB 35



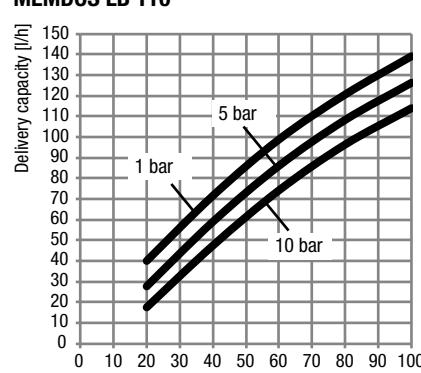
MEMDOS LB 60



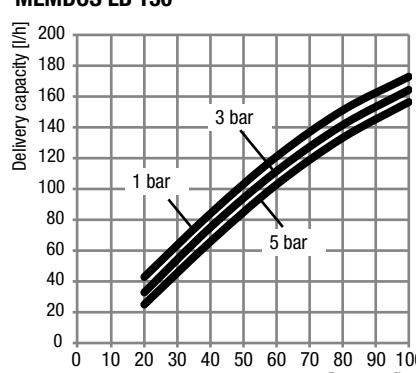
MEMDOS LB 80



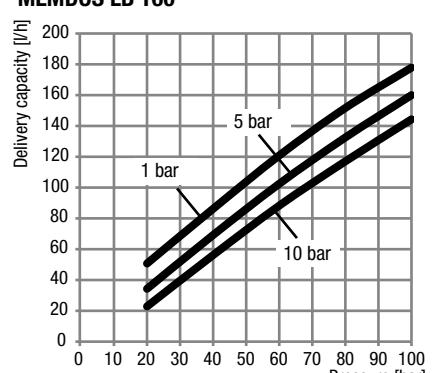
MEMDOS LB 110



MEMDOS LB 150



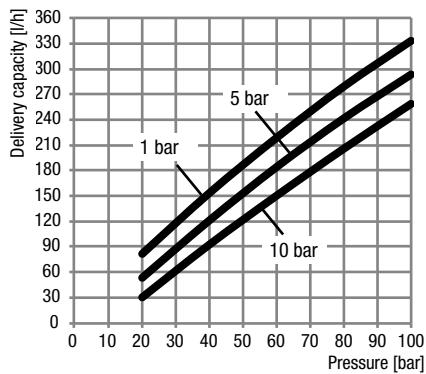
MEMDOS LB 160



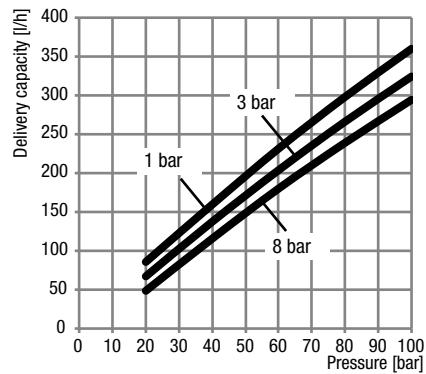
Delivery characteristic curves MEMDOS LB

These delivery capacities were determined on the manufacturer's test stands. They apply at 20 °C (68 °F) for water, at 100 % stroke frequency. The delivery capacity depends on the medium (density and viscosity) and temperature. Since these conditions vary at every installation location, you should calibrate the dosing pump.

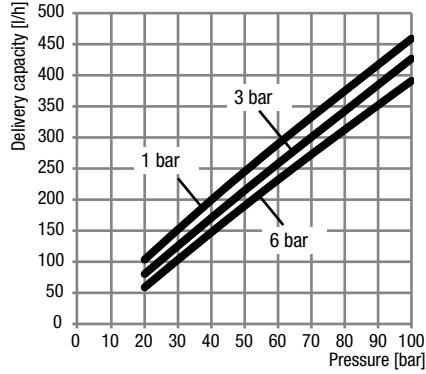
MEMDOS LB 260



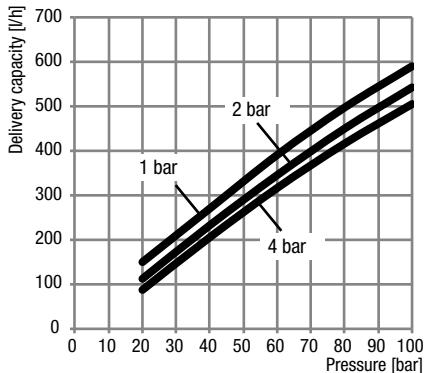
MEMDOS LB 310



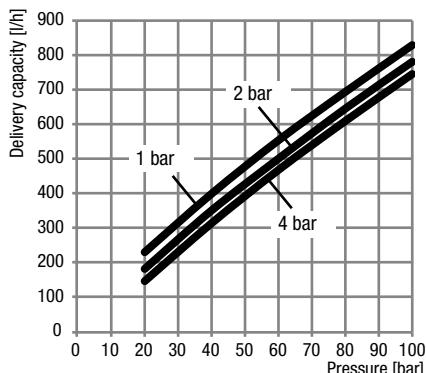
MEMDOS LB 400



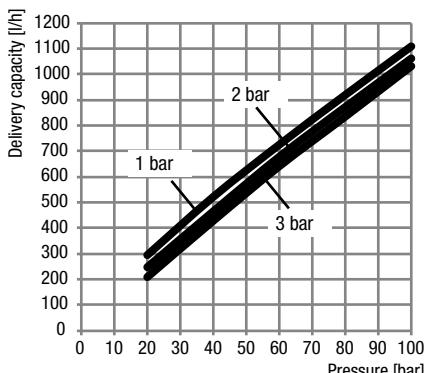
MEMDOS LB 510



MEMDOS LB 760



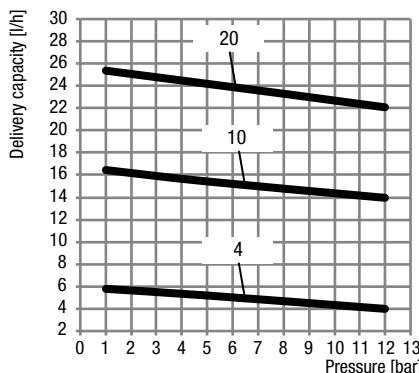
MEMDOS LB 1010



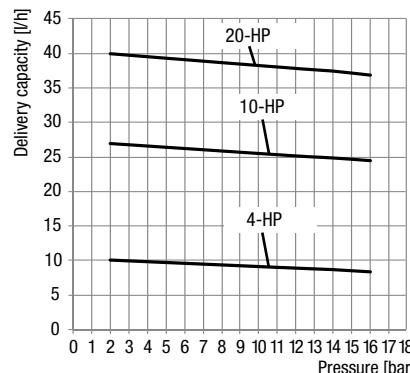
Delivery characteristic curves MEMDOS LA and LP

These delivery capacities were determined on the manufacturer's test stands. They apply at 20 °C (68 °F) for water, at 100 % stroke frequency. The delivery capacity depends on the medium (density and viscosity) and temperature. Since these conditions vary at every installation location, you should calibrate the dosing pump.

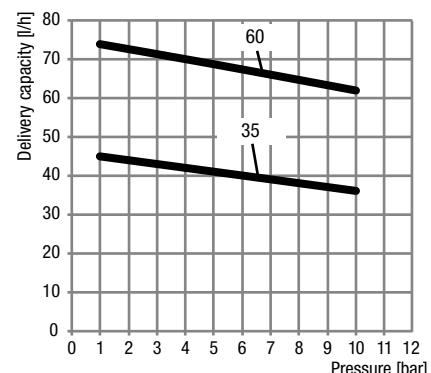
MEMDOS LA und LP 4 – 20



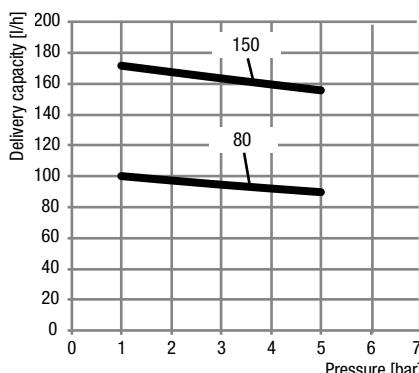
MEMDOS LA und LP 4-HP – 20-HP



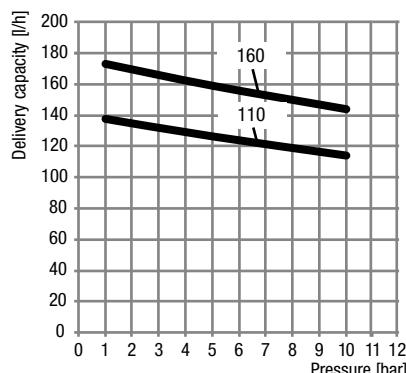
MEMDOS LA und LP 35 – 60



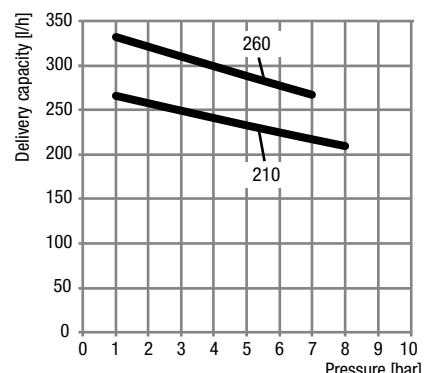
MEMDOS LA und LP 80 – 150



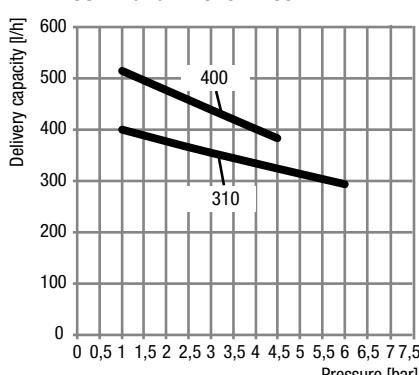
MEMDOS LA und LP 110 – 160



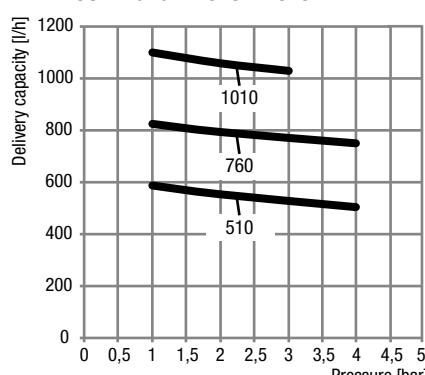
MEMDOS LA und LP 210 – 260



MEMDOS LA und LP 310 – 400



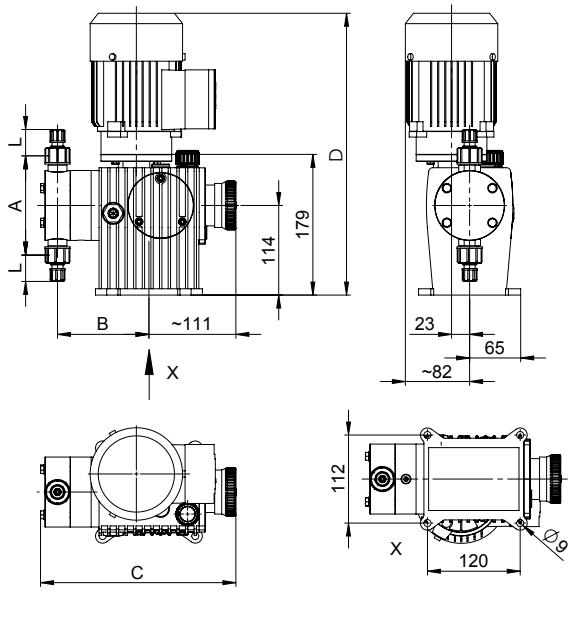
MEMDOS LA und LP 510 – 1010



Dimensions

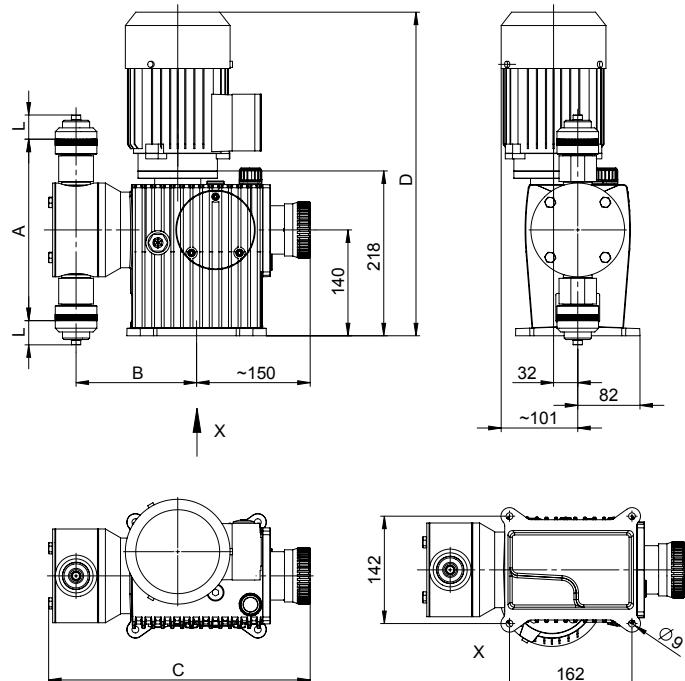
MEMDOS LB 4 – 80 and 150

All dimensions in mm



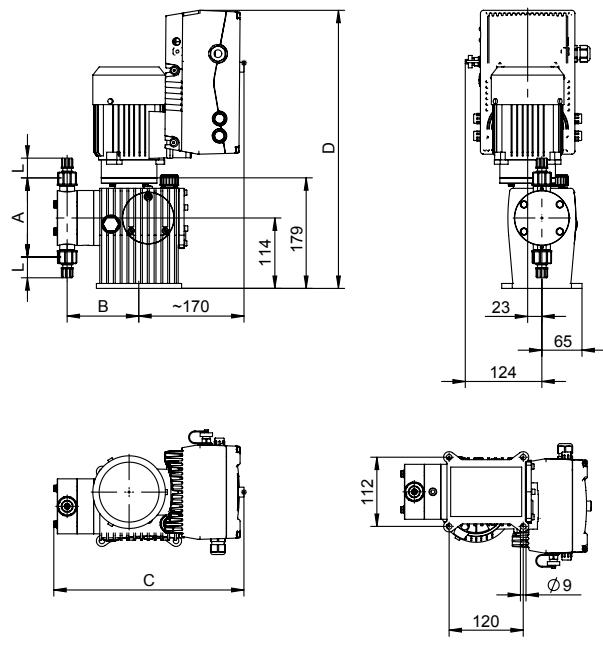
MEMDOS LB 110, 160 – 1010

All dimensions in mm



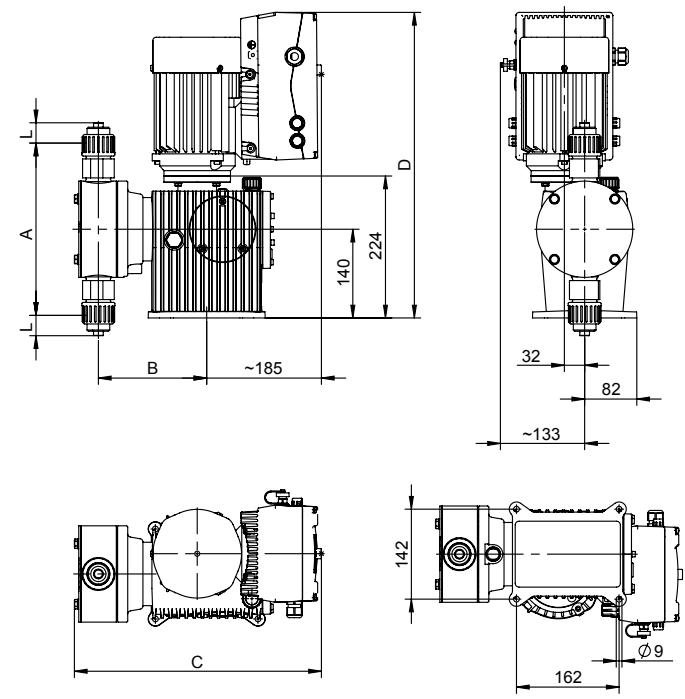
MEMDOS LA 4 – 80 and 150

All dimensions in mm



MEMDOS LA 110, 160 – 1010

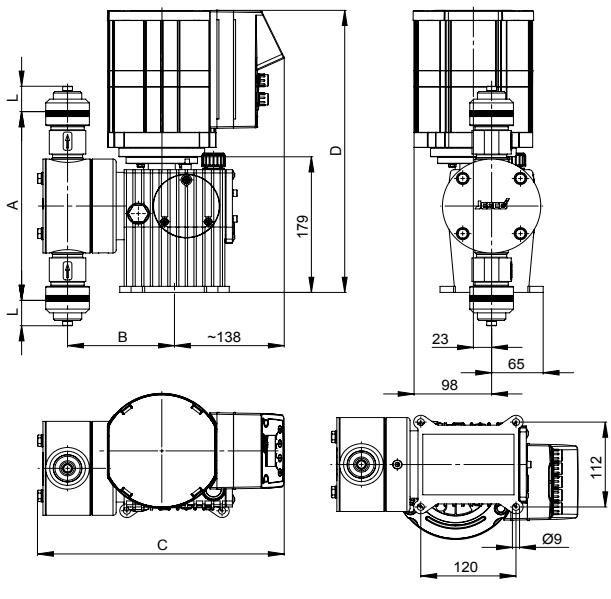
All dimensions in mm



Dimensions

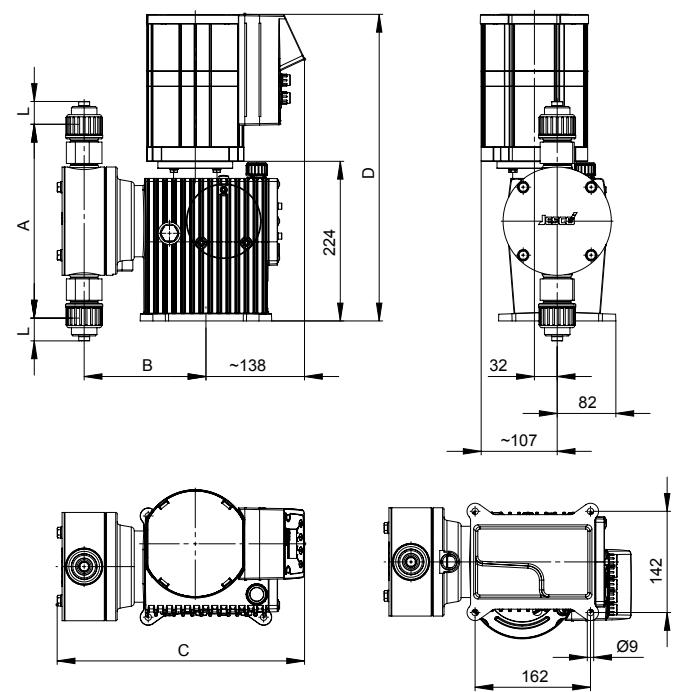
MEMDOS LP 4 – 80 and 150

All dimensions in mm



MEMDOS LP 110, 160 – 1010

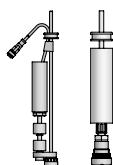
All dimensions in mm



Scale	4 – 20	35 – 60	80, 150	110, 160	210 – 260	310 – 400	510 – 1010
A	126	149	249	249	268	312.5	352
B	116	121.5	133	160	170	175	208 (*194.3)
C	MEMDOS LB	249	256	280	346	357	362
	MEMDOS LA	306.5	312	323.5	375	385	390
	MEMDOS LP	276	283	307	325	335	402 (*375.5)
D	MEMDOS LB	389	389	389	437	437	450
	MEMDOS LA	440	440	440	480	480	538
	MEMDOS LP	372	372	372	430	430	466
L	Depends on the connection type and size						

*) Stainless steel dosing head

MEMDOS standard accessories



Suction lines

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 2500 mm tube length.



Injection nozzles

To connect the dosing line to the dosing point.

Injection nozzle type R , spring loaded, opening pressure 0.1 bar.



Suction and pressure tube

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