

Product Information Solenoid-Driven Diaphragm Dosing Pump MAGDOS LC

Reliable dosing of chemicals

Solenoid-driven diaphragm dosing pumps play an important role in the reliable and accurate dosing of liquids in the process cycles. They are appropriate for low-pressure applications and small dosing quantities.

Dosing pumps are used in many branches of industry that work with liquid chemicals - not excluding toxic and aggressive media.

The inexpensive alternative

The solenoid-driven diaphragm dosing pump MAGDOS LC is the inexpensive alternative for simple, continuous metering tasks. MAGDOS LC suits particularly the water treatment and process industry.

This dosing pump is equipped with a new solenoid drive that operates with 120 strokes per minute at fixed pace. The MAGDOS LC is activated with the connection of the power supply.

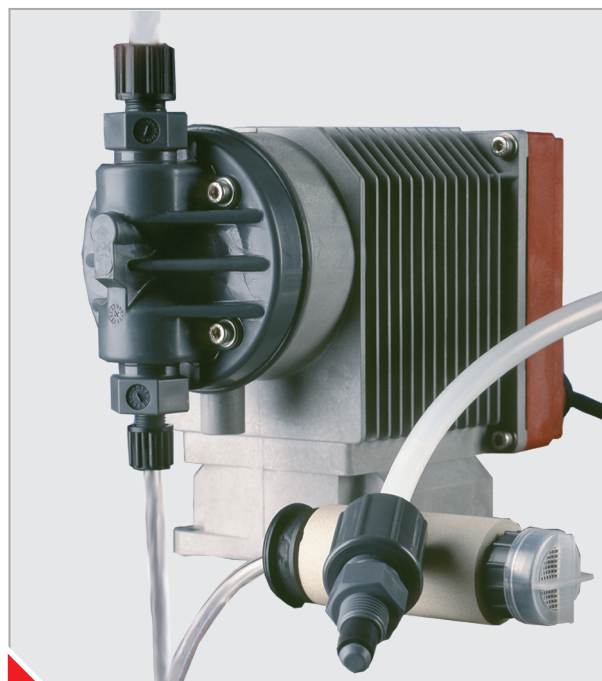
The dosing pump is available in three performance ranges. The capacity is infinitely adjustable from 0 to 100% via stroke length. That makes dosing as simple as the twist of your hand.

The MAGDOS LC is a compact solution, reduced to the most important elements for a reliable dosing. For a fast assembling the tubing connections are allready integrated in the check valves.

We offer MAGDOS LC as a set, consisting of: dosing pump, hose, injection nozzle, suction line with foot valve.

In short

- Suitable for toxic and aggressive media
- Applicable at ambient temperatures of up to 45 °C
- Infinitely adjustable from 0 to 100%
- Double-ball check valves for highest accuracy
- Connections are integrated with check valves
- 115 V AC model CSA proofed available



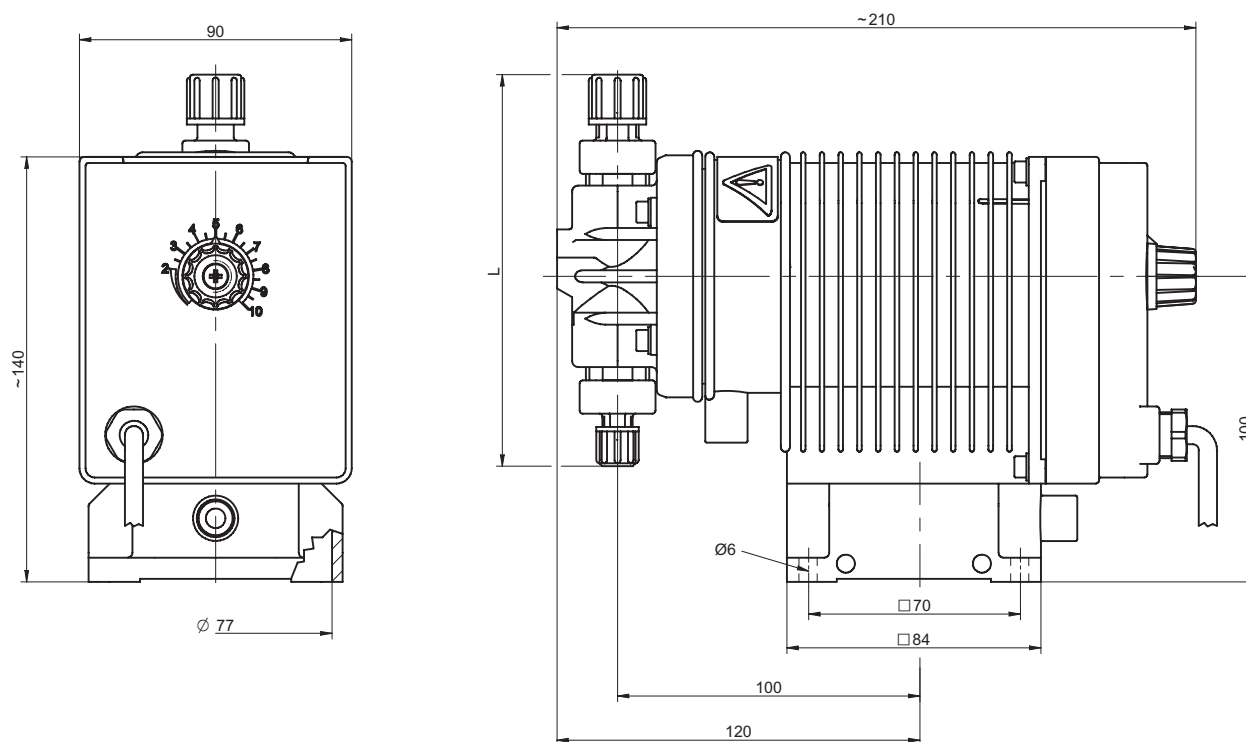
Technical data

MAGDOS LC	2	4	6
Max. pressure	10 bar	8 bar	5 bar
Flow rate at max. pressure	2 l/hr	3.9 l/hr	5.7 l/hr
Medium pressure	6 bar	4 bar	3 bar
Flow rate at medium pressure	2.2 l/hr	4.1 l/hr	5.9 l/hr
Max. stroke frequency	120/min		
Suction lift for non-ef-fervescent media	3 m H ₂ O		
Max. supply pressure	800 mbar		
Power supply	115 V AC or 230 V AC +/- 10%; 50/ 60 Hz		
Power supply cable	2 m (230 V AC with shock-proof plug 115 V AC with-/ UL-CSA-plug)		
Power consumption	20 W		
Max. power consumption during dosing stroke	230 V AC: 2 A, 115 V AC: 3.8 A		
Protection class	IP 65		
Isolation class	F		
Max. ambient temperature	45 °C (with PVC parts 40 °C)		
Max. medium temperature	40 °C (with PVC parts 35 °C)		

Model variants

Product name	Capacity	Pressure	Material	Connections	Order no.
MAGDOS LC 2	2.2 l/hr	6 bar	PVC/ FPM	Terminal connection 4/6 - 6/9	10209001
	2 l/hr	10 bar	PVC/ FPM	Terminal connection 4/6 - 6/9	10209001
	2.2 l/hr	6 bar	PP/ FPM	Terminal connection 4/6 - 6/9	10209004
	2 l/hr	10 bar	PP/ FPM	Terminal connection 4/6 - 6/9	10209004
MAGDOS LC 4	4.1 l/hr	4 bar	PVC/ FPM	Terminal connection 4/6 - 6/9	10209002
	3.9 l/hr	8 bar	PVC/ FPM	Terminal connection 4/6 - 6/9	10209002
	4.1 l/hr	4 bar	PP/ FPM	Terminal connection 4/6 - 6/9	10209005
	3.9 l/hr	8 bar	PP/ FPM	Terminal connection 4/6 - 6/9	10209005
MAGDOS LC 6	5.9 l/hr	3 bar	PVC/ FPM	Terminal connection 4/6 - 6/9	10209003
	5.7 l/hr	5 bar	PVC/ FPM	Terminal connection 4/6 - 6/9	10209003
	5.9 l/hr	3 bar	PP/ FPM	Terminal connection 4/6 - 6/9	10209006
	5.7 l/hr	5 bar	PP/ FPM	Terminal connection 4/6 - 6/9	10209006

Dimensional figure

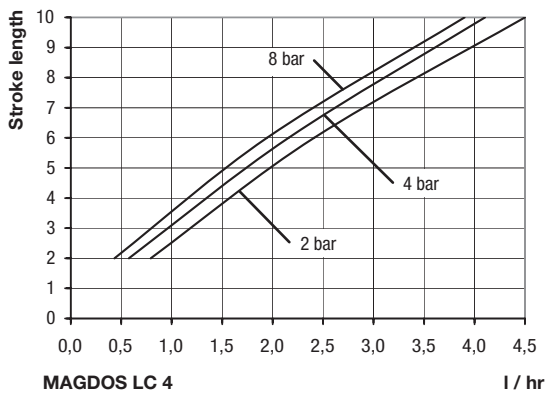
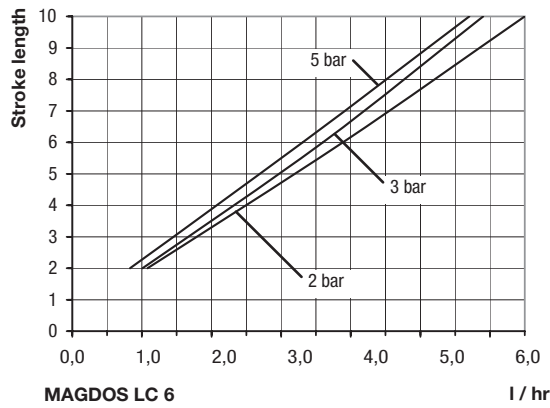
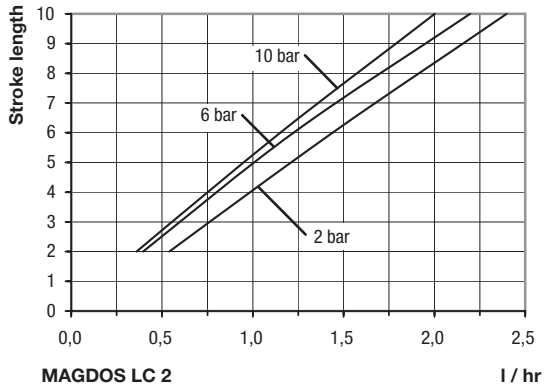


Nominal width	Tubing connection	Dim. L
DN 4	4/6 - 4/6	126 mm
DN 6	6/9 - 6/9	134 mm
DN 4 / DN 6	4/6 - 6/9	130 mm

All measurements are given in mm

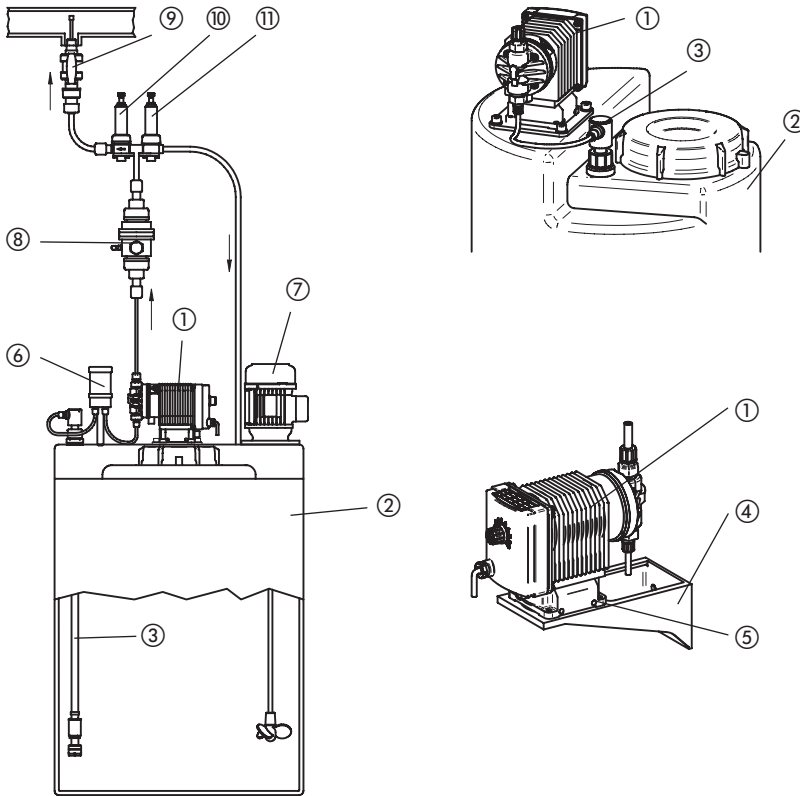
Performance curves

The performance curves refer to water at 20 °C (68 °F). The performance of the dosing pump depends on the viscosity of the process fluid and hydraulic installation conditions. Dosing pumps must therefore be gauged in litres during application.



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Installation examples



Legend

- ① MAGDOS LC
- ② Chemical tank
- ③ Suction line
- ④ Wall bracket
- ⑤ Mounting Hardware MAGDOS Pump Riser Base
- ⑥ Priming aid
- ⑦ Electric Agitator
- ⑧ Pulsation dampener
- ⑨ Injection nozzle with non-return and shutoff valve
- ⑩ Back pressure regulating valve
- ⑪ Pressure relief valve (safety valve)

Accessories

In addition to the dosing pump, the following accessories are available for the assembly and operation:

Description	Order no.
Accessory kit, consisting of injection nozzle, suction line and hose	37148
Mounting kit for mounting of pump on wall bracket or pump base	37558
Wall bracket	26502
Pump base required to mount pump on water meter	29775

Even the best dosing pump can still be improved – namely by the right technical periphery, which, in fact, is the reason for the particularly extensive accessories program. It converts your dosing pump into an efficient dosing system.

Further accessories you will find in our dosing pump brochure.

To optimize the dosing process we recommend back pressure regulating and safety valves. These valves are used

- to increase dosing accuracy at fluctuating system pressures.
- in case of long dosing pipes, to avoid overfeeding caused by acceleration effects, chemical moving still forwards, although the pump returned to suction already.
- to avoid siphoning, if the chemical pressure should be higher than the system pressure.
- to prevent an excessive pressure increase in the system downstream the dosing pump, which may occur for example if shutoff valves are closed although the pump is still running or the injection nozzle is choked.