

# Small, compact and complete

The MAGDOMAT - proportional dosing system



## Proportional dosing

Dosing pumps are used in a range of applications which work with liquid media. Proportional dosing via a contact-type water meter represents a controlled form of dosing control. They are used to feed chemicals in water inflow lines for simple industrial processes, in agriculture, in stock farming, in private applications and for drinking water supply and drinking water supply systems such as private wells, on camp sites or on ships.

## A harmonised system

The new MAGDOMAT is even more compact and provides a higher performance than its predecessor. The injection nozzle has already been integrated; use of the new solenoid diaphragm dosing pump increased the delivery capacity of the type s MAGDOS LD. The pulse sequence of 1 – 10 l/pulse, connected with the maximum possible stroke frequency of 250 min<sup>-1</sup>, produces exact dosing with homogeneous mixing.

MAGDOS LD pumps are simple to use and designed for control via external pulses. Double ball valves ensure high accuracy, even at the lowest flow rates. Dosing head ventilation is available for outgassing media. Thanks to the sturdy, low-maintenance solenoid drive, the media being supplied are reliably and accurately dosed. The patency of the material provides a high level of chemical resistance, thus enabling multi-purpose application with a range of metered media. A wide range of piping system connections and dosing medium packaging round off the wide-ranging MAGDOMAT product line.

## Functions

- Completely fitted, ready-to-use system
- Throughflow volume up to 30 m<sup>3</sup>/h
- Delivery rate up to 15 l/h
- Delivery pressure up to 16 bar
- Pulse sequence 1 – 10 l/pulse
- Level input with early warning and main alarm
- Protection class IP 65

## Functionality

The MAGDOMAT is inserted into an existing pipe line as a finished module. It is already fitted with all the necessary elements for the required dosing task from the contact water meter via the high-quality solenoid diaphragm dosing pump to the already installed injection nozzle.

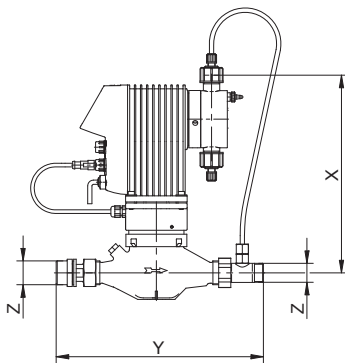
The only requirement is an outlet socket (230 V/AC, 50/60 Hz). Dosing can begin directly after installation in the pipe line and connection to the suction line to the dosing medium tank (delivered as an accessory).

An external control to the parameter monitoring is available, but not strictly necessary, as the water meter is connected function-safe to the dosing pump both mechanically and electronically and has been tested.

## Technical data

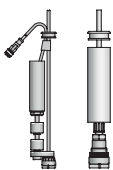
MAGDOMAT			
Max. flow rate	m <sup>3</sup> /h		30
Max. delivery rate	l/h		15
max. delivery pressure	bar		16
Max. stroke frequency	rpm		250
Suction lift	mWs		3
Pulse sequence	l/pulse		1 – 10
Dosage medium leading material			PVC
Seals			FPM
Power output			230 V AC, 50/60 Hz, 30 W
Protection class			IP 65
Max ambient / medium temperature	°C		40 / 30
Weight	kg		approx. 4.5 – 8.0

## Dimensions



Nominal width	X	Y	Z
DN20	~290 mm	~300 mm	G3/4
DN25	~295 mm	~390 mm	G1
DN40	~310 mm	~450 mm	G1 1/2
DN50	~335 mm	~270mm	flange PN16

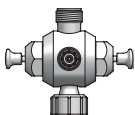
## Accessories



### 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.

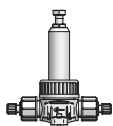
Flexible suction line, SA model with foot valve and load part made from ceramic and 2500 mm tube length.



### PENTABLOC

The PENTABLOC multi-function valve is installed directly on the dosing head of the pump and contains the following features:

- Back pressure function, opening pressure 3 bar
- Pressure relief function, opening pressure 11 bar
- Anti-siphoning and dosing control function



### Back-pressure valve

Back-pressure valve to be mounted in the dosing line.

Adjustable pressure 1 – 16 bar.



### Wall mounting

Wall mounting including mounting material for fitting the water meter Material: Brass