

# Verderdos

## VE1-MA solenoid dosing pump



### Description

The Verderdos solenoid diaphragm dosing pump, model VE1-MA is especially suitable for accurate and reliable dosing of chemicals in water treatment applications and for the process industry. A wide range of accessories is available to measure, dose and control water treatment processes. Available as wall mounted pump or on foot.

### Your benefits

- Proportional dosing pump to an external 0/4-20mA signal
- Dual working mode, constant and proportional
- Easy to install and maintain
- Standard PVDF wetted parts to assure best chemical resistance
- Standard supplied with SCHUKO plug
- On/off switch
- Protection glass IP 65

### Materials

Materials	Standard	Optional
Pump head	PVDF	PP
Balls	Pyrex	Ceramics, PTFE, SS 316
Diaphragm	PTFE	-
Fittings	PVDF 1/2"	PP 1/2"
Seals	FPM	EPDM
Valve cartridges	PVDF 4 x 6	PP 4 x 6
Foot filter	PVDF 4 x 6 ball valve	PP 4 x 6 lip valve
Injection valve	PVDF 4 x 6 ball valve	PP 4 x 6 ball valve
Suction tube	PVC 4 x 6	PVDF
Delivery tube	PE 4 x 6	PVDF

### Optional

- Level switch

	PTFE BALLS	SS 316 BALLS	PYREX BALLS	CERAMIC BALLS
<b>Material</b>	PTFE	SS 316	DURAN – PYREX	AL <sup>2</sup> O <sup>3</sup>
<b>Hardness</b>	60 ( D )	1407160 HB	± 45 HRC	± 45 HRC
<b>Specific weight</b>	2.10 g/cm <sup>3</sup>	8.02 g/cm <sup>3</sup>	2.23 g/cm <sup>3</sup>	3.90 g/cm <sup>3</sup>
<b>Description</b>	Resistant to most of oxidizing chemicals, inorganic salt solutions, hydrocarbons. Non-conductive.	Spheres with resistance to corrosion caused by chemical solutions oxidants, organic chemicals, sterile solutions, mineral water and sea water, ammonia, salt air, etc.	Spheres with excellent chemical inertness to most acids. Excellent for use in metering pumps and valves in contact with strong oxidizing concentrations.	Resistant to most corrosive agents. Not recommended for use with hydrochloric acid and hydrofluoric acid solutions. Maximum abrasion resistance.

### Technical data

	Max l/h	Pressure bar	Max cc	Max operating temp °C	Stroke mm	Solenoid ø	pump head material	Power c Watt	Pulses ppm	Weight kg
1.5 - 12	1.5	12	0.14	65	0.9	80	PVDF	50	180	3.5
02 - 11	2	11	0.18	65	0.9	80	PVDF	50	180	3.5
04 - 09	4	9	0.37	65	0.9	80	PVDF	50	180	3.5
05 - 08	5	8	0.46	65	1.1	80	PVDF	50	180	3.5
07 - 05	7	5	0.65	65	1.1	80	PVDF	50	180	3.5
08 - 04	8	4	0.74	65	1.3	80	PVDF	50	180	3.5
10 - 02	10	2	0.92	65	1.3	80	PVDF	50	180	3.5
15 - 0.5	15	0.5	1.39	65	1.3	80	PVDF	50	180	3.5

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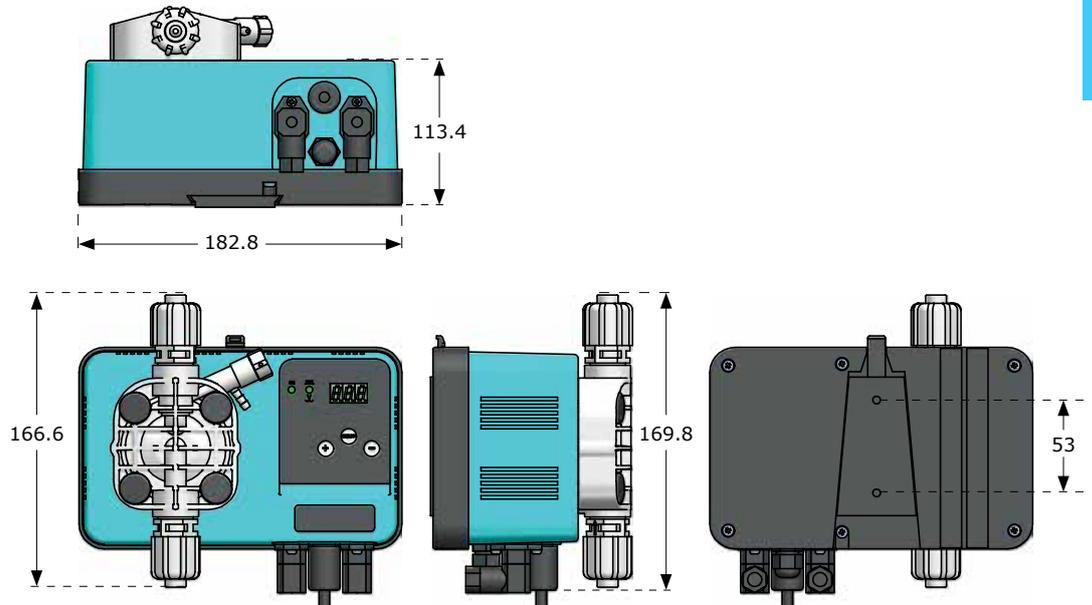


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### Installation example



### Dimensions (in mm)



### Standard installation kit

Injection valve	PVDF foot filter with ball valve	Delivery tube 2 m PE 4x6	Suction tube 2 m PVC 4x6	Bleed tube 1.5 m PVC 4x6

### Accessories

- Probes (ph/Redox/Chlorine Cells)
- Probe holders
- Suction lances
- Mixers
- Tanks & bunds
- Water Meters

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Find your local supplier  
at [www.verderdos.com](http://www.verderdos.com)

For construction, installation and mounting drawings  
please contact your local authorised Verderdos distributor.

**VERDER**  
passion for pumps

