

CHEWATEC VDS IV

EXCELLENT QUALITY – EXTRA PERFORMANCE



900 – 1700 l/h

Motor-driven diaphragm metering pump

VDS IV – Standard metering pumps

CHEWATEC VDS IV

CHEWATEC VDS IV motor-driven metering pump delivers high level of process quality for continuous metering within simple metering tasks. It can be used, for example, for the metering of additives or flocculants in chemical metering.

With 4 gear reduction ratios, 1 dosing head size and 2 dosing head materials, the motor driven metering pump CHEWATEC VDS IV is well adapted to basic metering tasks. It is equipped with a three-phase motor. Its pump capacity can be adjusted between 0 – 100% via the stroke length with a self-locking rotary dial. Customized designs are available on request.

Features

- Stroke length: 9 mm
- Stroke length adjustment range: 0 – 100%
- Stroke length adjustment: manually by means of self-locking rotary dial
- Metering reproducibility is better than $\pm 2\%$ in the 30 – 100% stroke length adjustment range under defined conditions and with correct installation
- Wetted materials: PP, PVC as standard, PVDF, stainless steel on request
- PTFE diaphragm
- Motor: Three-phase motor (0.75 kW, 230/400 V, 50/60 Hz)
- Degree of protection: IP 55
- Robust aluminium housing
- Customised designs are available on request
- Provide suitable overload protection for all motor-driven metering pumps during installation for safety reasons

Technical Information

- **Capacity range:** 900 – 1 700 l/h
- Backpressure: 3 bar
- Stroke length: 0 – 100% (9 mm)
- Material: PP, PVC

Advantages

- Excellent suction capacity, gentle metering stroke and consistently precise metering
- Excellent process quality: Metering reproducibility is better than $\pm 2\%$ within the stroke length adjustment range of 30 – 100%
- Flexible adjustment of the pump capacity by means of a 0 - 100% stroke length
- Good adaptation to the specific application, thanks to 4 different gear reduction ratios and 1 size of liquid ends in 2 material versions as standard
- Power end/drive available with three-phase standard motor
- Customized designs are available on request

Areas of application

- Chemical metering in drinking water, cooling water and waste water circuits
- Metering of additives, flocculants, etc.

MATERIAL VERSIONS

Type	Dosing Head	Suction/Discharge Valve	Seals	Balls	Ball seat
PCE	PVC	PVC	EPDM	Borosilicate glass	PVC
PCB	PVC	PVC	FPM	Borosilicate glass	PVC
PPE	PP	PP	EPDM	Borosilicate glass	PP
PPB	PP	PP	FPM	Borosilicate glass	PP

CHEWATEC VDS IV

CHEWATEC ACCESSORIES



Foot Valve

With suction filter and non-return ball for connecting to suction line



Injection valve

With spring-loaded non-return ball for metering into open and closed systems



Injection lance

For metering into large pipes, when handling crystallizing media



Suction lance

With foot valve and level switch, for non-returnable containers or metering tanks.

CAPACITY DATA

Type	With 1500 rpm motor at 50 Hz Pump Capacity at max. back pressure				Suction lift mW	Perm. prepressure suction side bar	Connection suction/discharge side G-DN
	bar	l/h	ml/stroke	strokes/min			
030900	3	820	139.0	102	3.0	2	1 ½ " - 25
031200	3	1 140	139.0	144	3.0	2	1 ½ " - 25
031400	3	1 410	139.0	180	3.0	2	1 ½ " - 25
031700	3	1 700	139.0	216	3.0	2	1 ½ " - 25

INSTALLATION DIMENSIONS

Dimensions in mm

