



CHEM-AD® VPP/VPP-E/VPP-S PERISTALTIC METERING PUMPS

WALLACE & TIERNAN® LIQUID FEED SYSTEMS

The Chem-Ad® peristaltic metering pumps provide a well balanced range of capacities combined with excellent accuracy and chemical resistance. With the variety of models available, the peristaltic metering Chem-Ad VPP, VPP-E and VPP-S pumps are well suited for a wide variety of applications.

APPLICATIONS

- Potable water treatment
- Pool water treatment
- Chemical industry, food industry
- Laboratories and humid ambient conditions

PUMPS IN DETAIL

The Chem-Ad® VPP peristaltic metering pump is the most simple pump from the Evoqua Water Technologies range of dosing pumps. Depending on the chosen capacity kit the feed rate reaches up to 4000 ml/h. It is adjustable with a potentiometer. The peristaltic metering pump Chem-Ad VPP-E pump has the same dosing rate and an additional input – this may be a potential-free input or a 4-20 mA signal input.

The Chem-Ad VPP-S peristaltic metering pump is equipped with a step motor and a two-line-display. The feed rate is adjusted by the menu. Depending on the capacity kit the dosing rate in the standard range is up to 4000 ml/h, in the high range up to 10 l/h. With the different operation modes available the peristaltic pump Chem-Ad VPP-S pump is variously applicable such as in charge operations.

Key Benefits:

- Reliable metering of smallest quantities
- Long service life due to high quality materials of construction and components
- Easy operation
- User-friendly due to quick and simple replacement of hose

Features:




- Feed rate control
- Chem-Ad VPP-E and VPP-S pumps with rapid-action suction key and alarm LED
- Self-priming and no dry running

Options

Feed rate control

A wide range of accessories is available, p.e. a feed rate control, suction valves or suction lances with empty alarm contacts as well as injection pieces for all Chem-Ad® series pumps.

With the standard capacity kit the pumps are applicable to dose the following liquids: hydrochloric acid up to 33 %, pH value regulation solutions, sodium chlorite up to 9%, flocculation solutions (all popular products), brine (up to saturated solution), sodium hypochlorite up to 15%, flavourings on demand.

Equipment	Chem-Ad VPP	Chem-Ad VPP-E	Chem-Ad VPP-S
			
Feed rate depending on capacity kit	up to 4000 ml/h	up to 4000 ml/h	up to 10000 ml/h
ON/OFF key	-	x	x
Rapid-action suction key	-	x	x
Operation mode	ON/OFF by mains	Potential-free input or 4-20 mA signal input	Extern, 0-20 mA, 4-20 mA, 20-0 mA, 20-4 mA, x-y mA, Pulse, charge, flocculation with 2 sets of parameters
Adjusting the feed rate	with potentiometer	with potentiometer	with menu
Suction lance with empty alarm to connect	-	x	x
Output relay contact (potential-free)	-	x	x
Operation LED	-	x	x
Display	-	-	two lines
Alarm LED	-	x	x

For further information please see the corresponding Data Sheet.



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Specifications

	Chem-Ad VPP	Chem-Ad VPP-E	Chem-Ad VPP-S
Motor	Direct current motor		Step motor
Electrical supply	AC 230 V (+/-10%) 50/60Hz or 24 V AC/DC	AC 230 V (+/-10%) 50/60Hz	AC 100-240 V (+/-10%) 50/60Hz
Enclosure	IP 65		
Power consumption	max. 15 W		max. 18 W
Power supply fusing	200 mA MT		2.0 A MT
Capacity depending on capacity kit see table below	up to 4000 ml/h	up to 4000 ml/h	up to 10000 ml/h
Adjusting the capacity	with Potentiometer		with menu
Microprocessor control	–	X	X
Suction height	max. 2 m water column (20 °C)		
Viscosity	< 850 mPas		
Duty cycle	100 % ED		
Storage and operation temperature	5 – 45 °C		
Hose connections	ID 4 x 1 mm		
Equipment versions			
ON/OFF key	-	X	X
Rapid-action suction key	-	X	X
Operation mode	ON/OFF by mains	Potential-free input or 4-20 mA Signal input	Extern, 0-20 mA, 4-20 mA, 20-0 mA, 20-4 mA, x-y mA, Pulse, charge, flocculation with 2 sets of parameters
Suction lance / empty alarm to connect	–	X	X
Output relay contact (potential-free)	–	X	X
Operation LED	–	X	X
Display	–	–	2-line
Alarm LED	–	X	X
Dimensions W x H x D	95 x 175 x 130 mm		
Weight	approx. 1.2 kg		approx. 1.8 kg

Capacity kit (color coding)	Capacity VPP/VPP-E VPP-S Range Standard (S) ml/h	Capacity VPP-S Range High (H) ml/h	max. back pressure VPP/VPP-E/VPP-S bar
150 PH (blue)	8 – 150	8 – 375	3.0
600 PH (black)	15 – 600	15 – 1500	2.5
2000 PH (green)	45 – 2000	45 – 5000	1.5
4000 PH (red)	150 – 4000	150 – 10000	1.5

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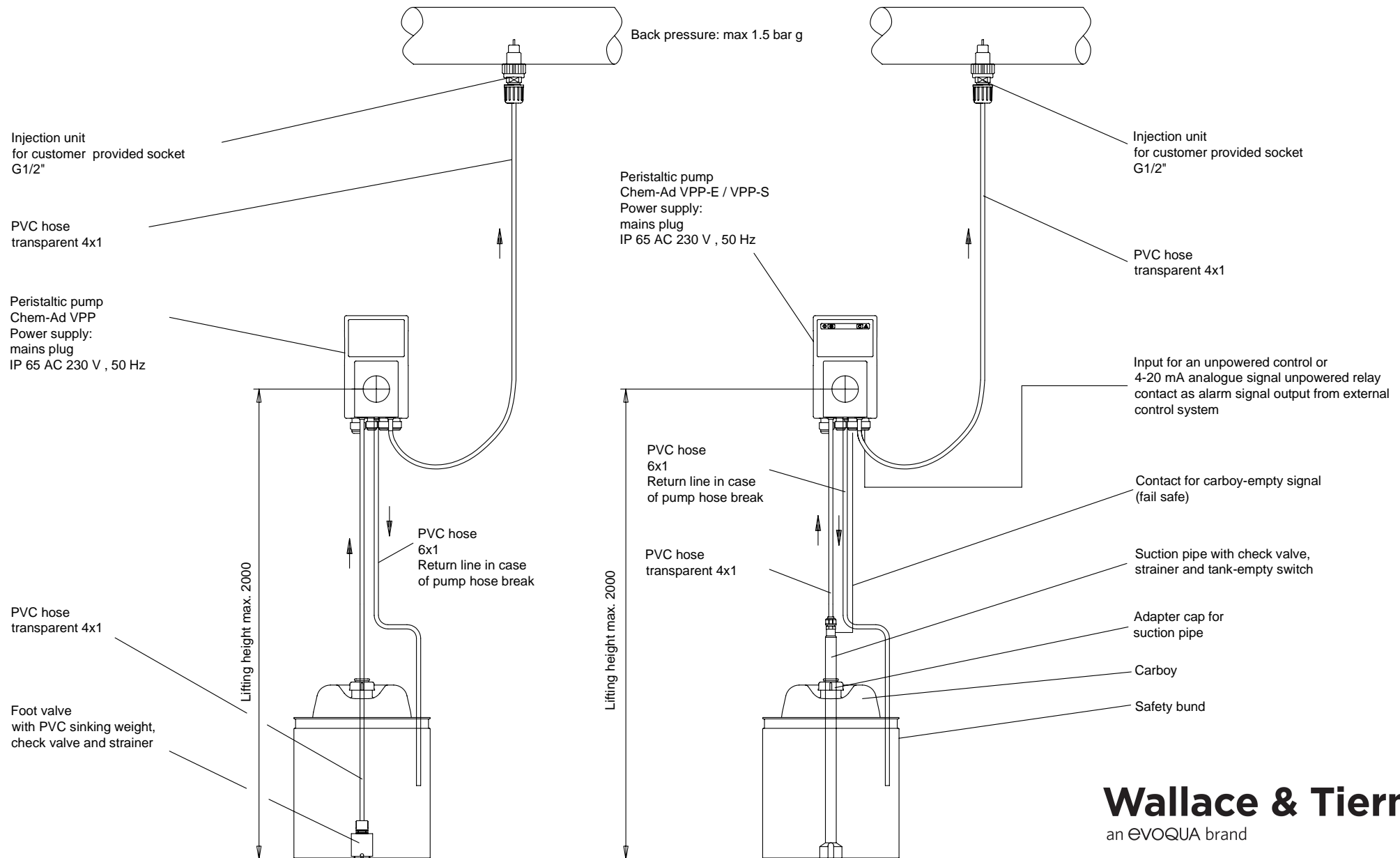
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Peristaltic pumps

Chem-Ad VPP/VPP-E/VPP-S



Wallace & Tiernan[®]
an EVOQUA brand

Typical installation
WT.490.250.010.IE.CN.0916

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