

6800
8800
5800
550



Diaphragm pumps
by aquatec





Diaphragm pumps – Quality in Detail

Since 1987, Aquatec has succeeded in developing a flexible organizational environment where new and innovative ideas can prosper. Over 30 patents worldwide relating to unique devices and their capabilities has allowed Aquatec to thrive into development of Diaphragm Pumps Technology, and has propelled the company into leadership position in the international marketplace. The product engineers work closely with customers, in order to help them meet precise performance requirements.

The booster pumps 6800 and 8800 incorporates a unique, fully adjustable, by-pass valve which controls the maximum allowable outlet pressure, regardless of variation in feed water pressure. The pumps are equipped with a John Guest push-in-port in series.

The 5800 and 550 series are supplied with an integrated pressure switch or an optional bypass. The 550's standard pump head has port openings that accepts „Quick-connect“ beverage style O-ringed barb fittings or 1/2" NPT female thread. The 5800 series offer John Guest push-in-ports or optional 3/8" NPT female thread ports.

Aquatec's innovative and patented design allows mounting in several positions without entrapping air, including pump head down and pump head up. A buttoned membrane limits the number of parts in contact with the medium to pump head housing membrane and valves. By combining the latest engineering polymers and die cast alloy, they have designed in much closer tolerances within the pump head and motor. Results are lower amp draw, lower operating temperatures, smoother running, longer life, lower maintenance and better efficiencies.

These product information will give an initial overview only. Please always consult Eckerle engineers to participate on their experience to optimize your system.

Aquatec diaphragm pumps are successfully used in:

- Industrial floor and carpet cleaning systems
- Heat exchange circulation for laser tool and welding tool cooling
- Filtration system pressurization
- Drinking and Industrial Water Pressure Boosting and Delivery
- Industrial spraying systems
- Agricultural spraying systems
- RV and marine water systems
- Beverage booster systems
- Medical Equipment liquid circulation, pressure boosting and Delivery

6800



Low-flow pressure pump

Features

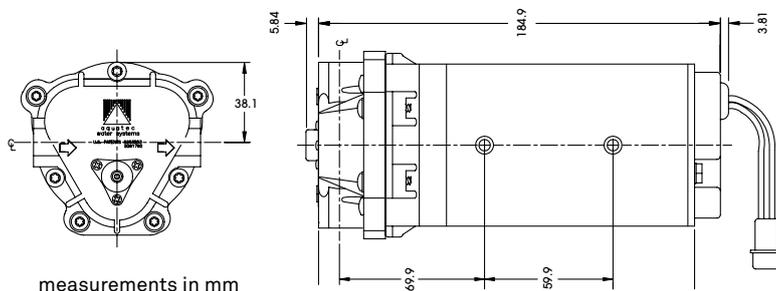
- Max. flow rate 54 l/h
- Max. pressure 7,5 bar (higher pressures on request)
- Whisper-quiet (noise level <45 dBA)
- Low consumption (14 W)
- Protection class IP20, for outdoor use on request
- Mounting options on request

Diaphragm pump

Technical Data

pressure (bar)	0	2	4	6
flow rate (ml/min)	840	660	580	400
consumption (A)	0,23	0,43	0,61	0,76

Performance measurement on example 6841-2J03-V221 (24 VAC).



8800

High-flow pressure pump

Diaphragm pump

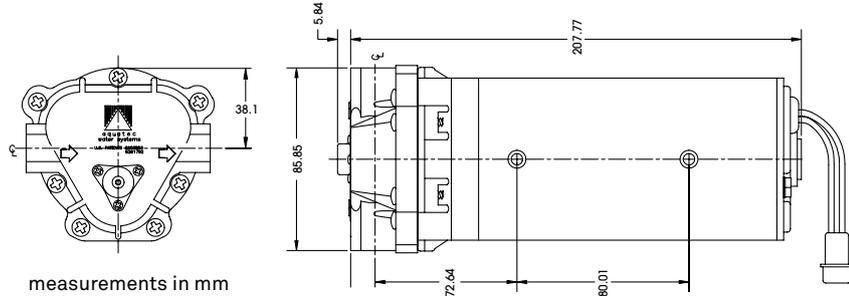
Features

- Max. flow rate 140 l/h
- Max. pressure 7,5 bar (higher pressures on request)
- Whisper-quiet (noise level <52 dBA)
- Low consumption (24 W)
- Protection class IP20, for outdoor use on request
- Mounting options on request

Technical Data

pressure (bar)	0	2	4	6
flow rate (ml/min)	1.600	1.300	1.000	520
consumption (A)	0,56	0,84	1,1	1,3

Performance measurement on example 8851-2J03-V323(24 VAC).



5800

High-flow delivery pump

Diaphragm pump

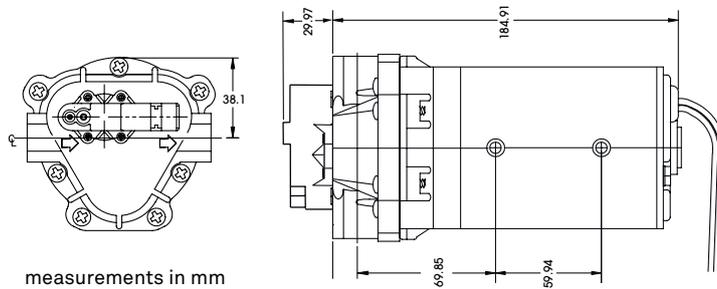
Features

- Max. flow rate 300 l/h
- Max. pressure 9 bar (14 bar on request)
- Chemically resistant versions
- High efficiency
- Protection class IP20, outdoor use on request
- Mounting options on request

Technical Data

pressure (bar)	0	2	4	6	8
flow rate (ml/min)	4.900	4.390	3.785	3.520	2.460
consumption (A)	0,24	0,27	0,35	0,39	0,48

Performance measurement on example 5853-1G63-V254 (230 VAC).



550

Super-flow delivery pump

Diaphragm pump

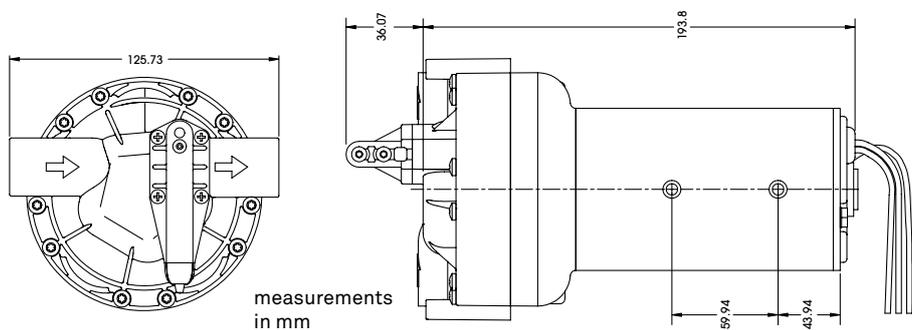
Features

- Max. flow rate 1370 l/h
- Max. pressure 4 bar (6 bar on request)
- Chemically resistant versions
- Minimal pulsation due to 5 chamber system
- Protection class IP20, outdoor use on request
- Mounting options on request

Technical Data

pressure (bar)	0	1	2	3	4
flow rate (ml/min)	11.360	9.470	8.025	6.060	4.730
consumption (A)	0,22	0,37	0,4	0,46	0,5

Performance measurement on example 5510-1F10-V706 (230 VAC).



Technical Data

Type	6800	8800	5800	550
Max. Flow rate (l/h)	54	140	120 – 300	400 – 1370
Differential pressure up to (bar)	7,5	7,5	9	4
Suction height approx. (m)	1,2	1,8	3	
Viscosity range approx. (cSt.)	1 – 100			
Filtration min. (µm)	100			
Ambient temperature approx. (°C)	0 – 50			
Medium temperature approx. (°C)	75			
Connector Ø (mm)	1/4" John Guest cartridge (further connections on demand)	3/8" John Guest cartridge (further connections on demand)	3/8" John Guest cartridge (inner thread 3/8", NPT on demand)	„Quick Disconnect“ connections or 1/2 NPT
Materials in contact with medium	PA, EPDM, Santopren (further combinations on demand)			
Weight approx. (gr)	2500	2600	2700	2900
Entire length (mm)	191 (dep. on version)	195 (dep. on version)	220 (dep. on version)	253 (dep. on version)
Available voltages (V)	12, 24, 120, 230			
Special voltage	on demand			
Electrical connection	cable end			

Accessories

Order no.

	Transformer, input 230 V/50 Hz, output 24 V/50 Hz, 0,8 A for pump 6800	23419
	Transformer, input 230 V/50 Hz, output 24 V/50 Hz, 2 A for pump 8800	07064
	Fitting for tubing 1/4" (ID 8 mm), straight for pump 6800	40810
	Fitting for tubing 3/8" (ID 10 mm), straight for pump 8800, 5800	40212
	Fitting for tubing (ID 12 mm), straight for pump 550	40017
	Fitting for tubing (ID 16 mm), straight for pump 550	40016
	Fitting for tubing (ID 12 mm), 90°-elbow for pump 550	40019
	Fitting for tubing (ID 16 mm), 90°-elbow for pump 550	40018

All indicated data serve alone the product description and are not as characteristics in the legal sense to be understood. Subject to alterations.