



Eccentric Diaphragm Pumps for Gas / Air

SP 500 EC / 550 EC / 560 EC



SP 500 EC-LC
SP 560 EC-LC



SP 550 EC
SP 550 EC-DB
SP 560 EC
SP 560 EC-DB

Product Features

- diaphragm micro pump for air and gas
- applicable as vacuum pump or pressure pump
- electric motor driven
- available in 4,5 / 6 / 9 / 12 volt dc
- minimal current consumption
- oil free / maintenance free
- reduced vibrations
- low noise
- virtually leak-tight
- lightweight
- extremely small size

Applications

- Gas sniffer / gas measurement / gas metering
- Portable gas detector pumps for safety devices
- Patient Monitoring / Analyzers
- Personal Gas Detectors / Gas Monitors
- Fuel cells
- Exhaust Gas Analysers
- Pneumatics
- Pipetting devices
- Consumer instruments



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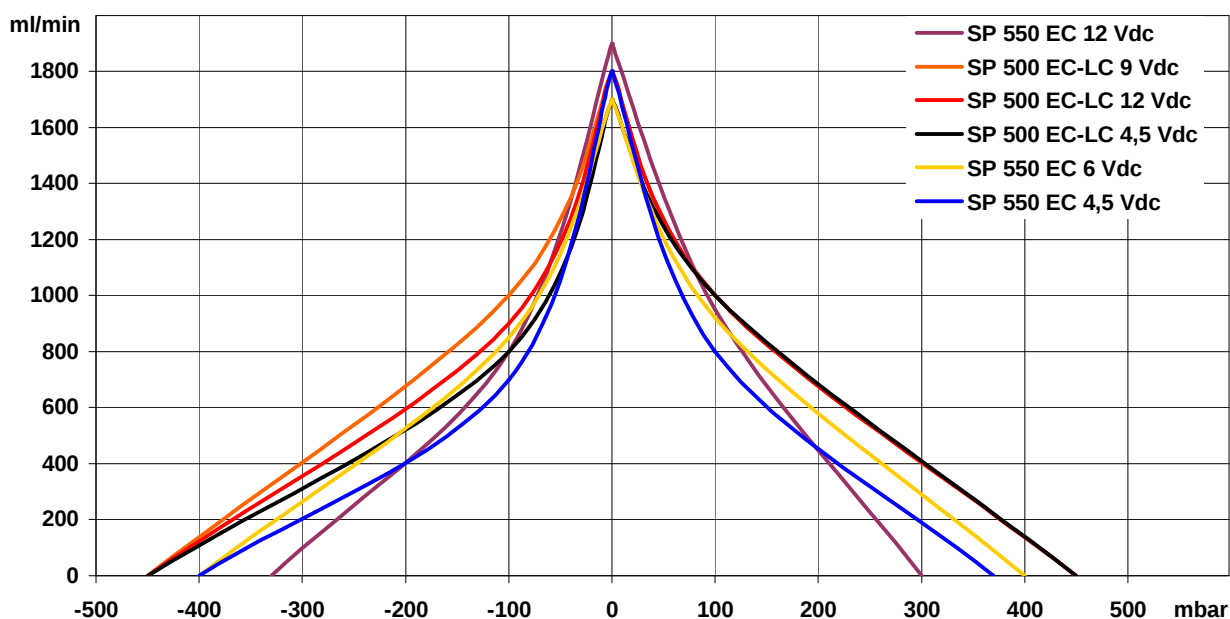
SP 500 EC / 550 EC / 560 EC

The pumps listed below represent a typical selection of our wide range of eccentric pumps and are intended for initial tests. Customised versions for your individual application would be made without extra costs - please contact us!

Designation	SP 500 EC-LC			SP 550 EC		
Operating Voltage* Art.-No.	4,5 Vdc 7s51003	9 Vdc 7s51001	12 Vdc 7s51010	4,5 Vdc 7s51048	6 Vdc 7s51049	12 Vdc 7s51050
Pneumatic Performance						
Free Flow [ml/min]	1700	1800	1800	1800	1900	1700
flow at: Pressure Side						
100 mbar [ml/min]	1000	1000	1000	800	920	950
max. Pressure [mbar]	450	450	450	370	400	300
flow at: Vacuum Side						
-100 mbar [ml/min]	800	1000	900	700	850	800
max. Vacuum [mbar]	-450	-450	-450	-400	-400	-330
Motor / Power Consumption						
Motor Type	standard optional			iron core - skew wound double ball bearings (SP 550 EC-DB) / brushless		
max. Current [mA]	155	100	80	100	80	65
Construction						
Pump Head	standard optional			PPS PA6		
Diaphragm, Valves	standard optional			EPDM FPM (Viton) / Silicone / FFPM (Kalrez) / PTFE (Teflon)		
Weight [g]	36,7			41,0		

* other voltages on request

Performance Curves





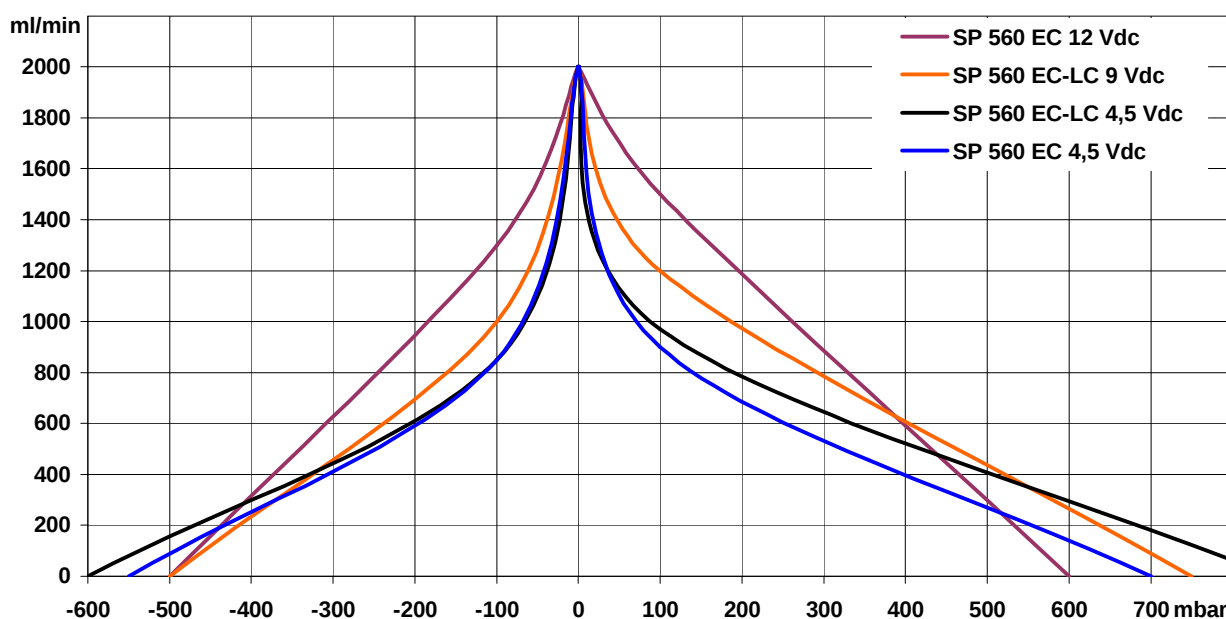
SP 500 EC / 550 EC / 560 EC

The pumps listed below represent a typical selection of our wide range of eccentric pumps and are intended for initial tests. Customised versions for your individual application would be made without extra costs - please contact us!

Designation	SP 560 EC-LC			SP 560 EC		
Operating Voltage* Art.-No.	4,5 Vdc 7s51130	9 Vdc 7s51131	12 Vdc 7s51132	4,5 Vdc 7s51140	6 Vdc 7s51141	12 Vdc 7s51142
Pneumatic Performance						
Free Flow [ml/min]	2000	2000	2000	2000	2000	2000
flow at: Pressure Side						
100 mbar [ml/min]	970	1200	1200	900	1000	1500
max. Pressure [mbar]	850	750	700	700	700	600
flow at: Vacuum Side						
-100 mbar [ml/min]	850	1000	1000	850	950	1300
max. Vacuum [mbar]	-600	-500	-550	-550	-550	-500
Motor / Power Consumption						
Motor Type	standard optional			iron core - skew wound double ball bearings (SP 560 EC-DB) / brushless		
max. Current [mA]	300	150	120	220	170	120
Construction						
Pump Head	standard optional			PPS PA6		
Diaphragm, Valves	standard optional			EPDM FPM (Viton) / Silicone / FFPM (Kalrez) / PTFE (Teflon)		
Weight [g]	36,7			41		

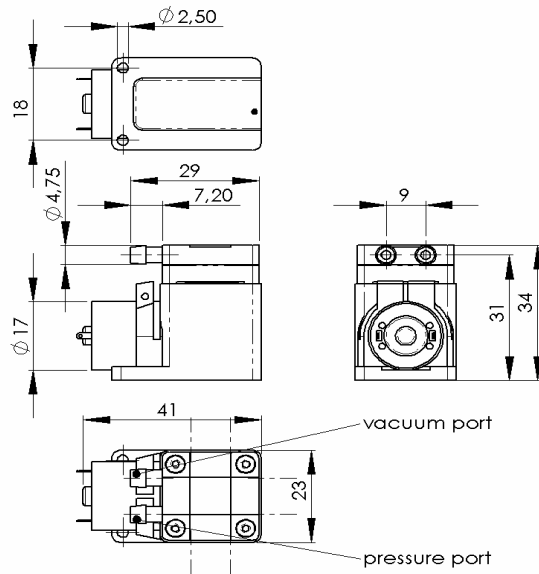
* other voltages on request

Performance Curves

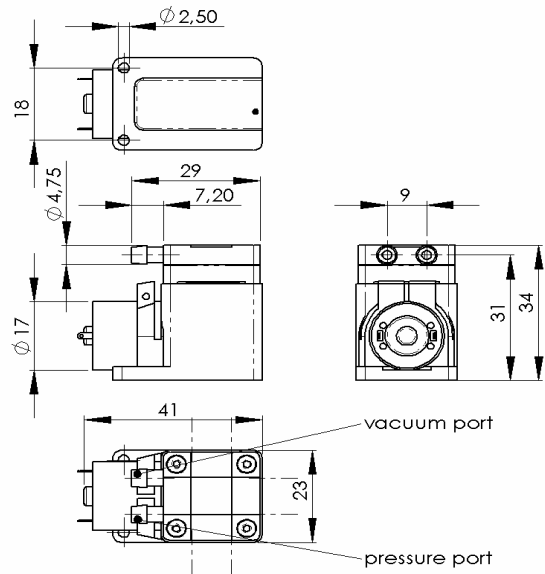




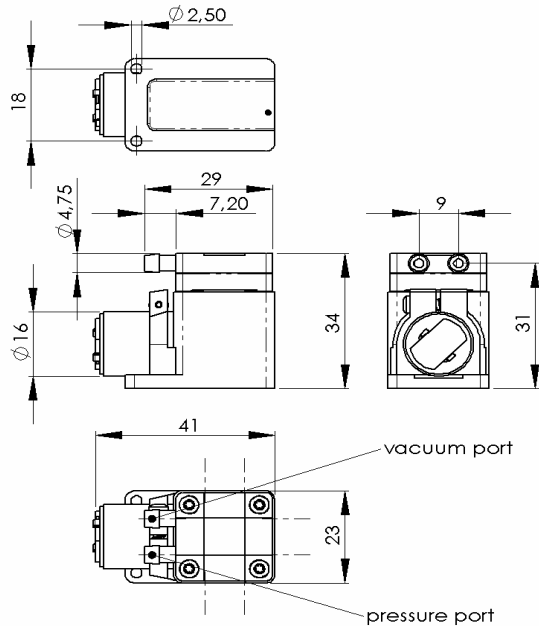
SP 500 EC-LC



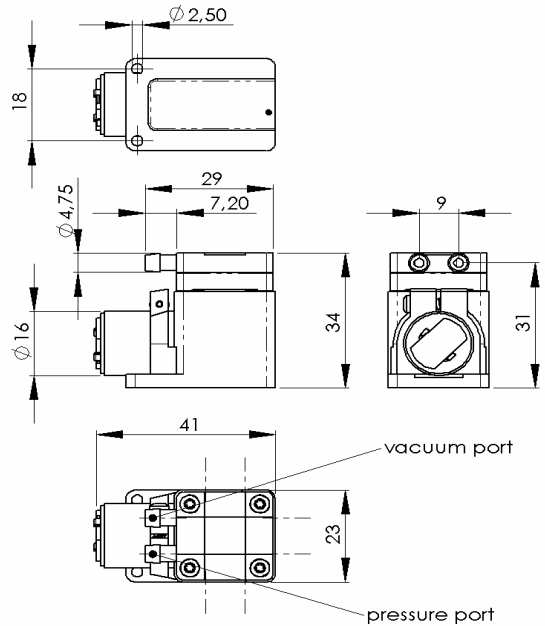
SP 560 EC-LC



SP 550 EC / 560 EC



SP 550 EC-DB / 560 EC-DB



Standard: connection ports as shown. Optional: 3 other port positions possible (see dashed lines)