



SP 100 EC-LC



SP 100 EC

Product Features

- diaphragm micro pump for air and gases
- applicable as vacuum pump or pressure pump
- motor driven
- available in 3 / 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

- Air sampling
- Portable gas detector pump for safety devices
- Anaesthesia Equipment
- Personal gas detector / Gas monitor
- Exhaust gas analyser
- Pneumatics
- Pipetting device



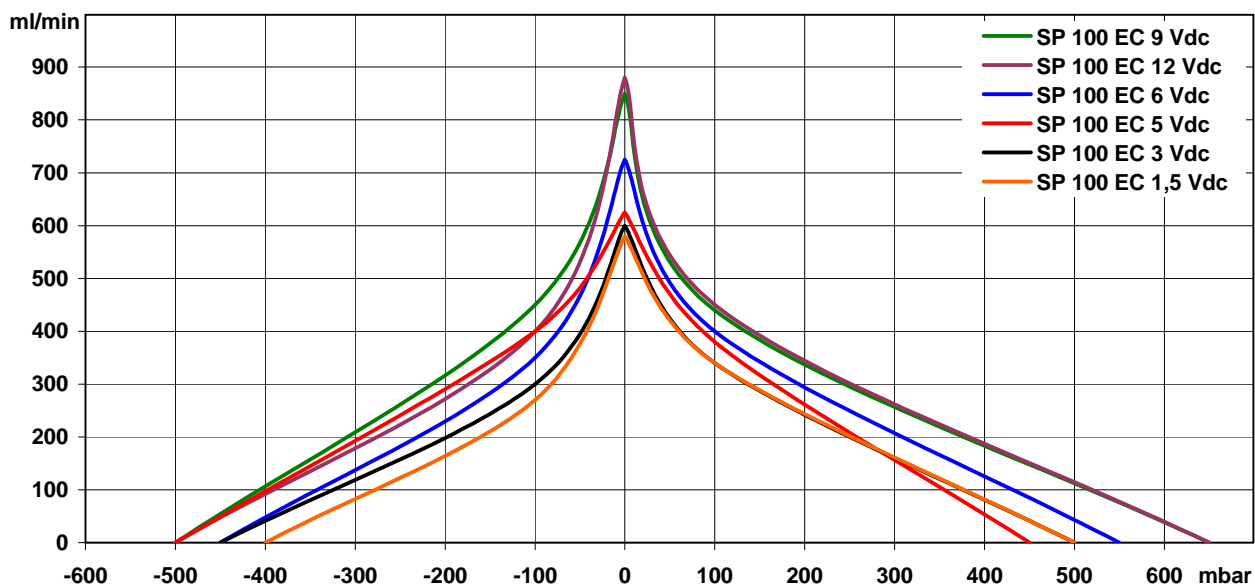
Schwarzer
Precision



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 100 EC					
Operating Voltage*		1,5 Vdc	3 Vdc	5 Vdc	6 Vdc	9 Vdc	12 Vdc
Art.No.		7s50170	7s50171	7s50172	7s50173	7s50174	7s50175
Pneumatic Performance							
Free Flow [ml/min]		580	600	625	725	850	880
flow at:		Pressure Side					
100 mbar [ml/min]		340	340	380	400	440	450
max. Pressure [mbar]		500	500	450	550	650	650
flow at:		Vacuum Side					
-100 mbar [ml/min]		270	300	400	350	450	400
max. Vacuum [mbar]		-400	-450	-500	-450	-500	-500
Motor / Power Consumption							
Motor Type							
standard		-	dbb/brushl.	-	skew wound	double ball bearings / brushless	
optional		-	dbb/brushl.	-	skew wound	double ball bearings / brushless	
max. Current [mA]		230	100	100	70	50	40
Construction							
Pump Head							
standard		PPS					
optional		customer specific - upon request					
Diaphragm, Valves							
standard		EPDM					
optional		FKM / Silicone					
Weight [g]		15,5					

Performance Curves

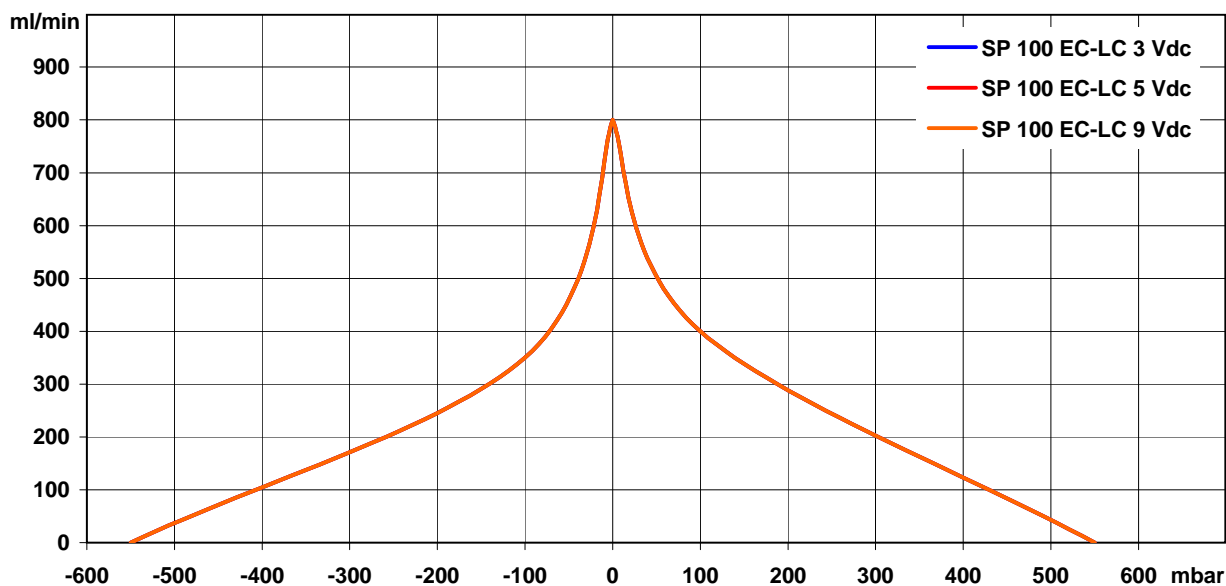




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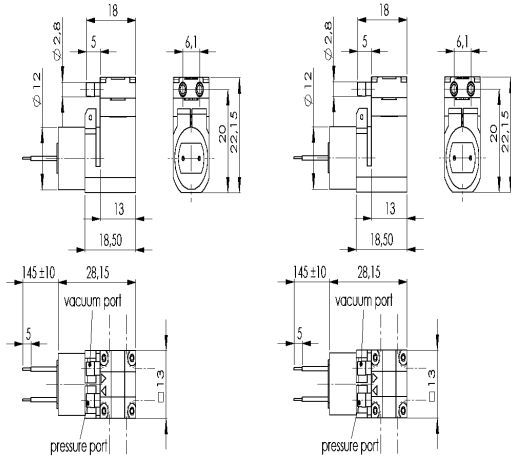
Designation		SP 100 EC-LC		
Operating Voltage*		3 Vdc	5 Vdc	9 Vdc
Art.No.		7s50140	7s50141	7s50142
Pneumatic Performance				
Free Flow [ml/min]		800	800	800
flow at:		Pressure Side		
100 mbar [ml/min]		400	400	400
max. Pressure [mbar]		550	550	550
flow at:		Vacuum Side		
-100 mbar [ml/min]		350	350	350
max. Vacuum [mbar]		-550	-550	-550
Motor / Power Consumption				
Motor Type		iron core		
standard		-		
optional				
max. Current [mA]		180	100	80
Construction				
Pump Head		PPS		
standard		customer specific - upon request		
optional				
Diaphragm, Valves		EPDM		
standard		FKM / Silicone		
optional				
Weight [g]		12,3		

Performance Curves

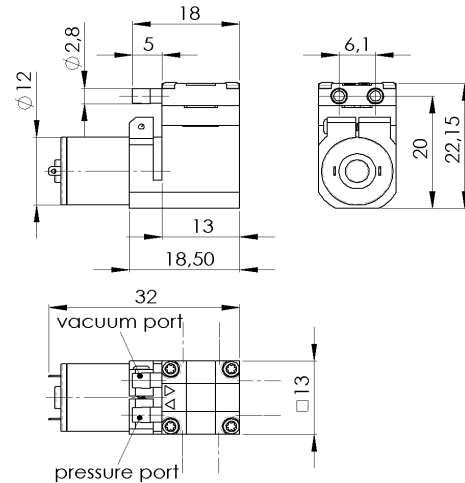




SP 100 EC



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Mounting clamp (plastic)



suitable for:

- SP 100 EC

Art.No.: 5.58.00

Standard: connection ports as shown.

Optional: 3 other port positions possible (see dashed lines)

In order to reduce noise and vibration we recommend securing the pump in one of the following ways:

- with padded double sided adhesive tape
- with Velcro (hook and loop) tape for easy assembly and service
- Put the pump in a box lined with foam. Wires for the motor and tubing for the pump can go through a hole in the side of the box.



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