





We care.

Customised Pumps - No Additional Costs!

Product Features

- Micro diaphragm pump for gases
- Applicable as vacuum or pressure pump
- FCV technology (fast closing valves)
- Available in common supply voltages
- From low-cost to durable brushless drives
- · Low weight and very small size
- Applicable for noise- and vibrationsensitive environments (i.e. hospitals, personal protection equipment, etc.)
- Installation in any mounting orientation allows simple device integration
- Leak-tight, oil-free and maintenance-free

Application Examples

Particularly suitable for portable devices such as:

- · Air sampling
- Gas sniffer
- Breath gas analysis
- Gas monitoring
- Personal gas detectors
- Exhaust analyzers
- Pneumatics
- Pipetting devices
- Fuel cells

and many more...

Customisation

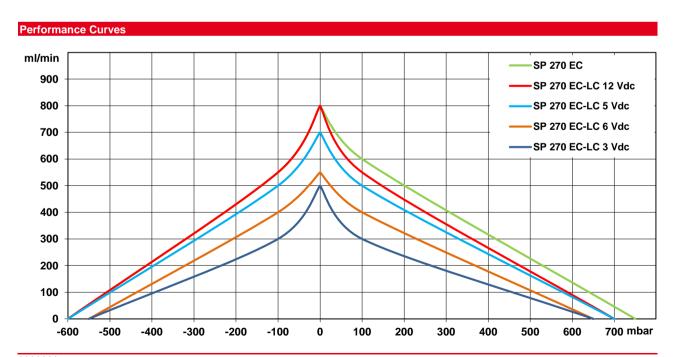
- We offer your customised precision pump without additional costs - even for small batches
- Our modular concept allows easy adaptions
- Outstanding quality Made in Germany
- Excellent technical consultation and service by experts
- More than 40 years experience in pump applications
- Manifold mounting
- Fast delivery order your sample now!





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 additional costs - please contact us! All flow values given under norm conditions (according to DIN 1343). Optional materials can cause deviating performance values.

Designation	SP 270 EC		SP 270 EC-LC				
Operating Voltage [Vdc] Art.No.	3 7s20097	5 7s20098	12 7s20099	3 7s20093	5 7s20094	6 7s20095	12 7s20096
Pneumatic Performance							
Free Flow [ml/min]	800	800	800	500	700	550	800
	Pressure Side						
Flow at 100 mbar [ml/min]	600	600	600	300	500	400	550
max. Pressure [mbar]	750	750	750	650	700	650	700
	Vacuum Side						
Flow at -100 mbar [ml/min]	550	550	550	300	500	400	550
max. Vacuum [mbar]	-600	-600	-600	-550	-600	-550	-600
Motor / Power Consumption							
Standard Motor Type	skew wound / sintered bearings			iron core / sintered bearings			
max. Nominal Current [mA]	150	120	60	150	130	90	60
Optional Motor Type	ball bearings					-	
Construction							
Pump Head							
standard	PPS						
optional	manifold mounting, customer specific - upon request						
Diaphragm, Valves							
standard	EPDM						
optional				FKM			
Weight [g]	27			24			

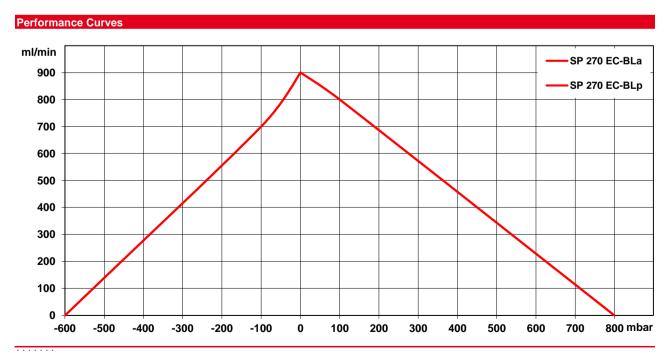






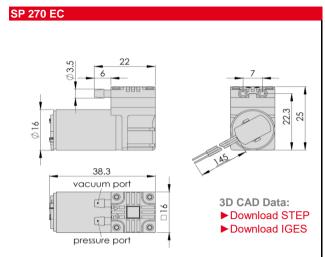
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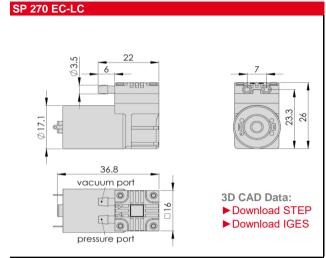
Designation	SP 270 EC-BLa	SP 270 EC-BLp				
Operating Voltage [Vdc]	12	12				
Art.No.	7s20100	7s20101				
Pneumatic Performance						
Free Flow [ml/min]	900	900				
	Pressure Side					
Flow at 100 mbar [ml/min]	800	800				
max. Pressure [mbar]	800	800				
	Vacuum Side					
Flow at -100 mbar [ml/min]	700	700				
max. Vacuum [mbar]	-600	-600				
Motor / Power Consumption						
Standard Motor Type	brushless, analog control /	brushless, PWM control /				
	ball bearings	ball bearings				
max. Nominal Current [mA]	120	120				
Optional Motor Type	-	-				
Construction						
Pump Head						
standard	PPS					
optional	manifold mounting, customer specific - upon request					
Diaphragm, Valves						
standard	EPDM					
optional	FKM					
Weight [g]	23	23				

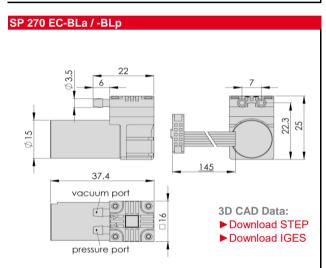






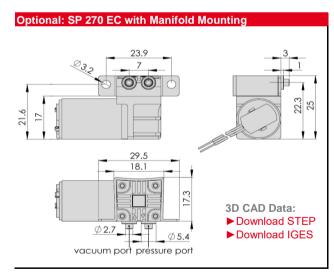


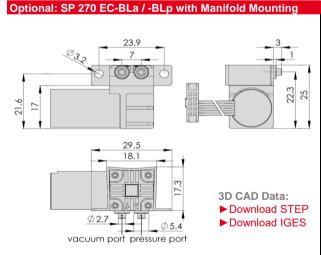




Standard: connection ports as shown Optional: 3 other port positions possible

You can also download the 3D CAD data on the SP website: www.schwarzer.com/download



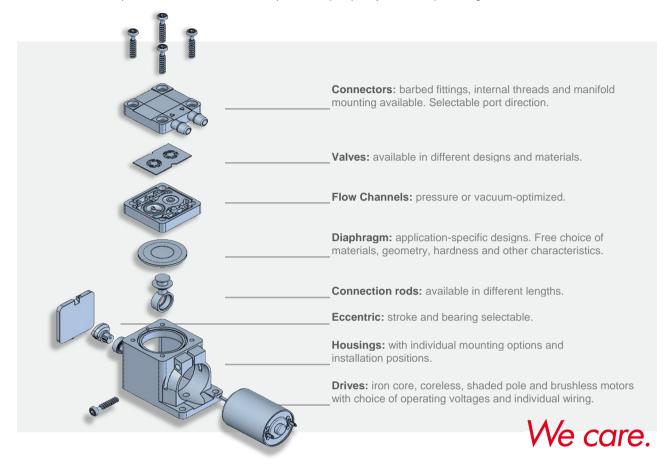






Customising Examples

Customising without compromises is extremely important to us. We develop precision pumps in direct collaboration with our customers - with all parameters exactly adapted to the respective application. Thanks to the modular pump design, this is done without added development-related costs! We develop the ideal pump for you. Uncompromising and reliable.



Installation Notes

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

- with rubber mounting (see "Accessories")
- 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. Motor wires and tubing for the pump can lead through a hole in the side of the box.

Accessories

Schwarzer Precision offers a comprehensive portfolio of pump accessories such as:

- mountings
- silencers + filters
- electronics
- check valves + pressure switches



http://www.schwarzer.cn