

SP 270 EC-TH

## We care.

**Customised Pumps - No Additional Costs!**

### Product Features

- Miniature diaphragm pump for gases
- Applicable as vacuum or pressure pump
- High efficiency and available in common supply voltages
- From low-cost to durable brushless drives
- Low weight and very small size
- Applicable for noise- and vibration-sensitive environments (i.e. hospitals, personal protection equipment, etc.)
- Installation in any mounting orientation allows simple device integration
- Leak-tight, oil-free and maintenance-free
- Use with two media or in serial or parallel operation

### Application Examples

Particularly suitable for portable devices such as:

- Air sampling
- Gas sniffer
- 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 adaptations
- 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!

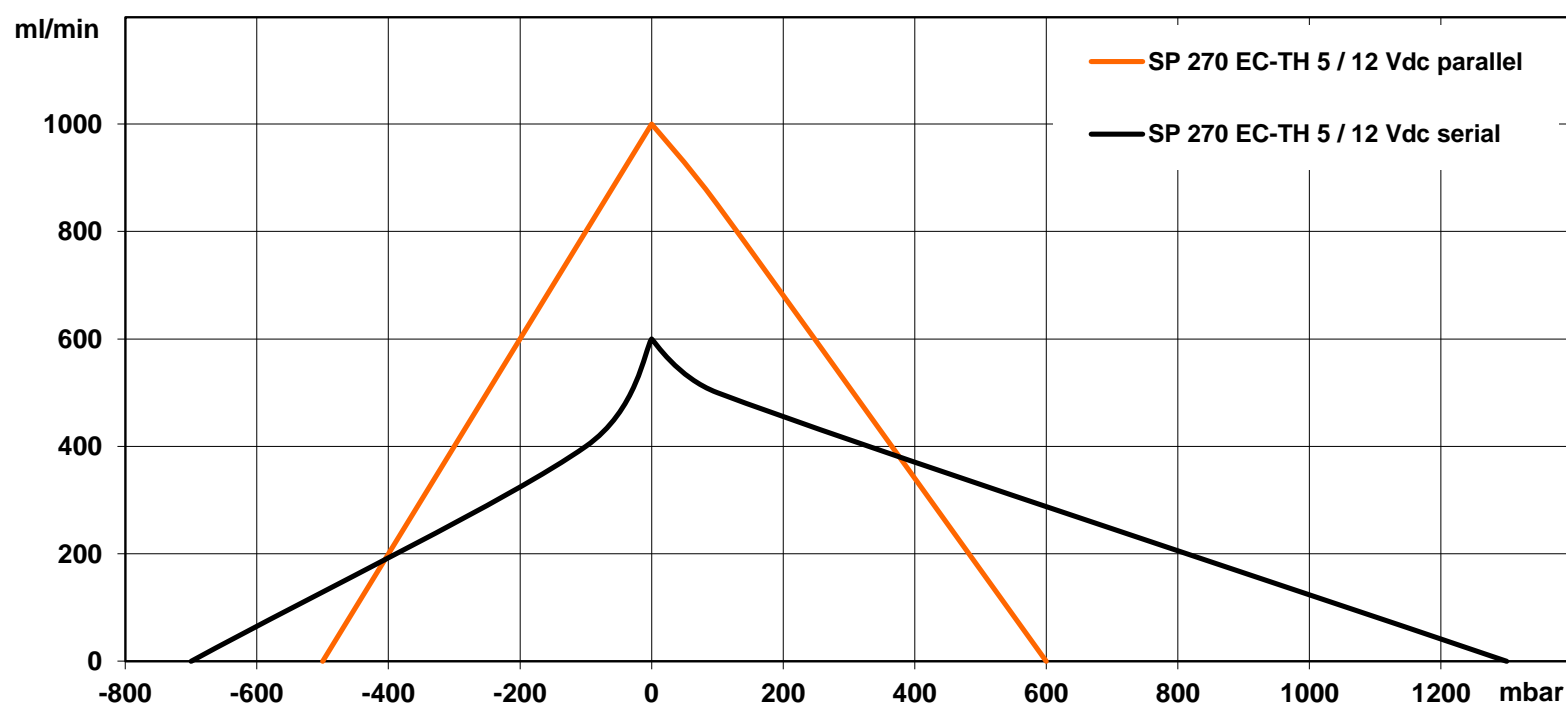


The pumps listed below represent a typical selection of our wide range of eccentric pumps and are intended for initial tests.

**Customised versions** for your individual application would be made without additional costs - please contact us!

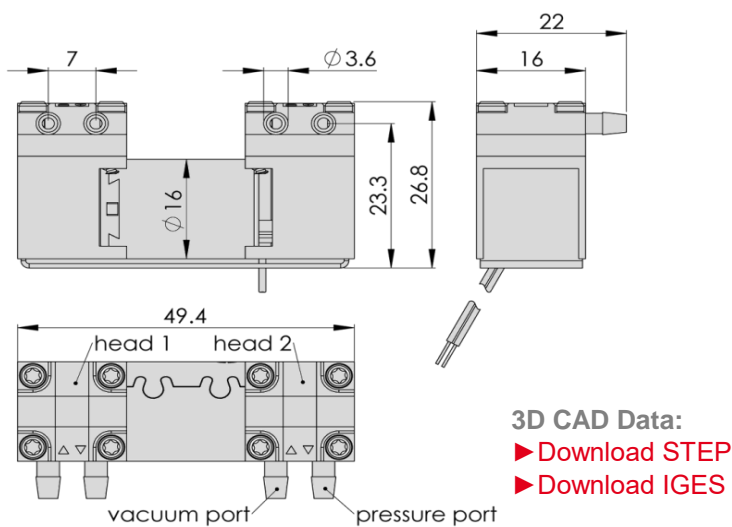
All flow values given under norm conditions (according to DIN 1343). Optional materials can cause deviating performance values.

Designation		SP 270 EC-TH			
Operating Voltage [Vdc]		5		12	
Art. No.		7s55120		7s55121	
Pneumatic Performance					
Free Flow [ml/min]		serial	parallel	serial	parallel
		600	1000	600	1000
Pressure Side					
Flow at 100 mbar [ml/min]		500	850	500	850
max. Pressure [mbar]		1300	600	1300	600
Vacuum Side					
Flow at -100 mbar [ml/min]		400	800	400	800
max. Vacuum [mbar]		-700	-500	-700	-500
Motor / Power Consumption					
Standard Motor Type		skew wound / sintered bearings			
max. Nominal Current [mA]		200		100	
Optional Motor Type		double ball bearings			
Construction					
Pump Head		PPS			
	standard	customer specific - upon request			
	optional				
Diaphragm, Valves		EPDM			
	standard	FKM / Silicone			
	optional				
Weight [g]		35.5		35.5	

**Performance Curves**

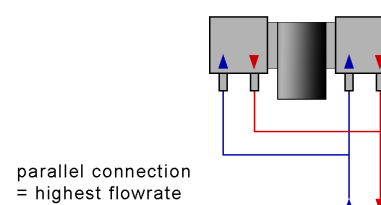
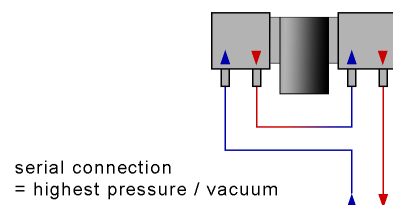


## SP 270 EC-TH



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

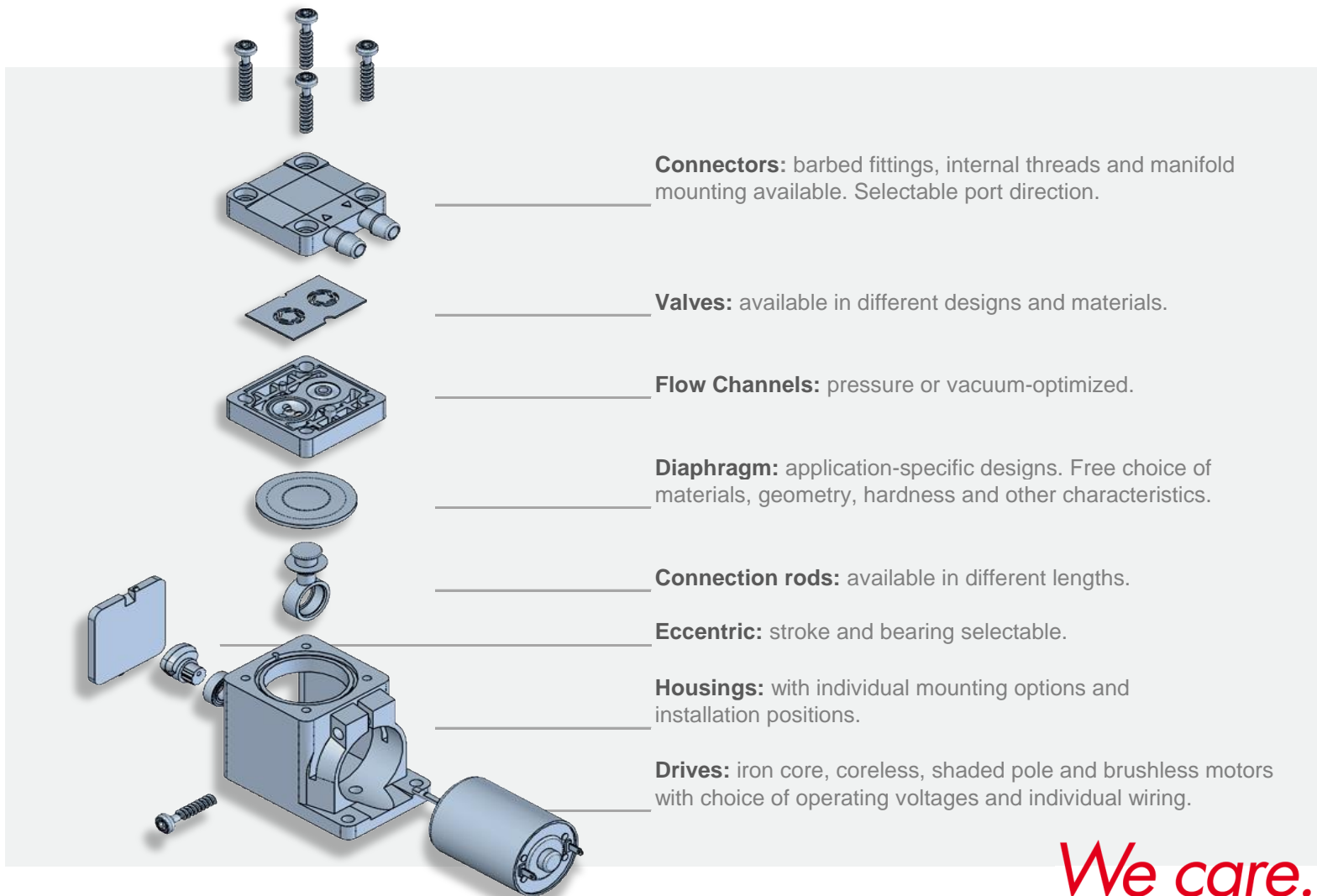
You can also download the 3D CAD data on the SP website:  
► [www.schwarzer.com/download](http://www.schwarzer.com/download)





### 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