

oil free  
maintenance free  
reduced vibrations  
quiet  
small  
lightweight  
minimal current consumption



**Autoclaves**  
**Air Brush**  
**Gas Detectors**  
**Cooling**  
**Pneumatics**  
**Industrial**

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 680 EC			SP 685 EC		SP 680 EC-LC	
Art.No. 6 Vdc	7.52.65						
Art.No. 12 Vdc		7.52.66		7.52.71		7.52.73	
Art.No. 24 Vdc			7.52.67		7.52.72		7.52.74

### Pneumatic Performance

	at:	6 Vdc	12 Vdc	24 Vdc	12 Vdc	24 Vdc	12 Vdc	24 Vdc
free flow [l/min]		4,3	4,8	4,8	6,3	6,3	7,0	6,6
<b>Pressure side:</b>								
flow at:								
300 mbar [l/min]		1,8	2,3	2,3	3,6	3,6	4,0	3,6
max. Pressure [mbar]		840	930	930	1300	1300	1150	1200
<b>Vacuum side:</b>								
flow at:								
-200 mbar [l/min]		1,5	1,6	1,6	2,6	2,6	3,0	2,6
max. Vacuum [mbar]		450	460	460	620	620	500	600

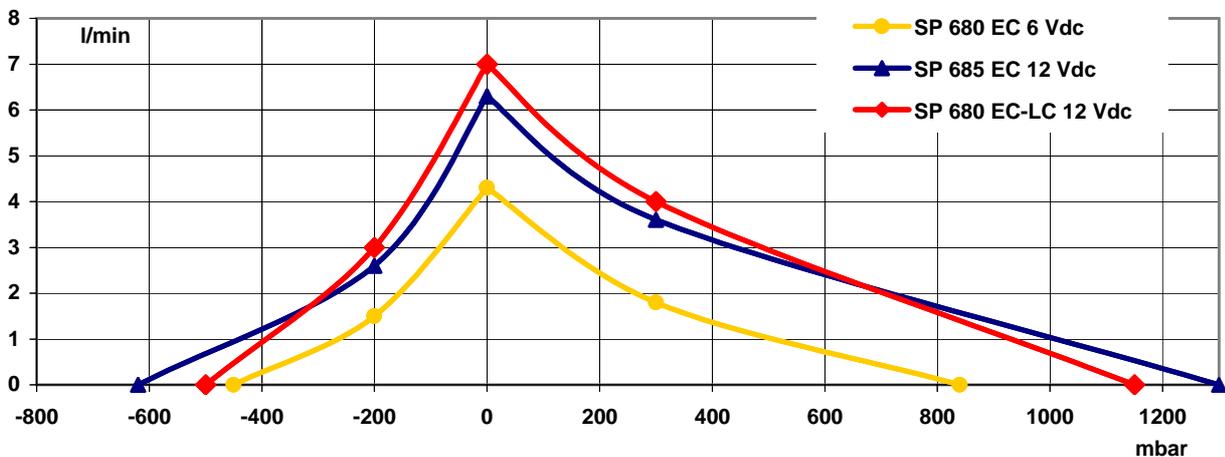
### Power Consumption

Motor Type	Iron Core DC motor with Electromagnetic Suppression				Iron Core DC			
optional					brushless			
max. current [mA]	1250	660	370		1060	530	1000	520

### Material

Pump Body/Head	PPS			PPS		PPS	
Standard							
Optional		customer specific - upon request					
Diaphragm, Valves	Viton			Viton		Viton	
Standard							
Optional	EPDM / Silicone			EPDM / Silicone		EPDM / Silicone	

### Performance Curves



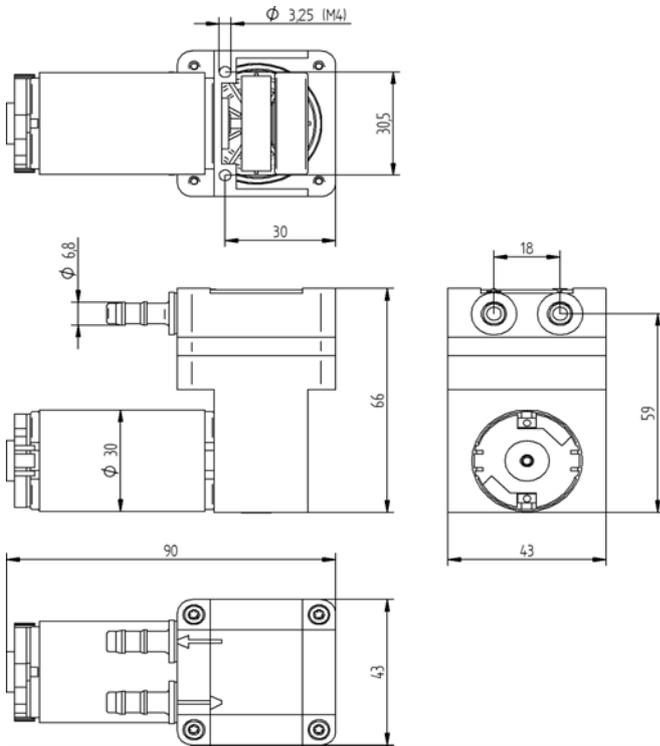


Schwarzer  
Präzision

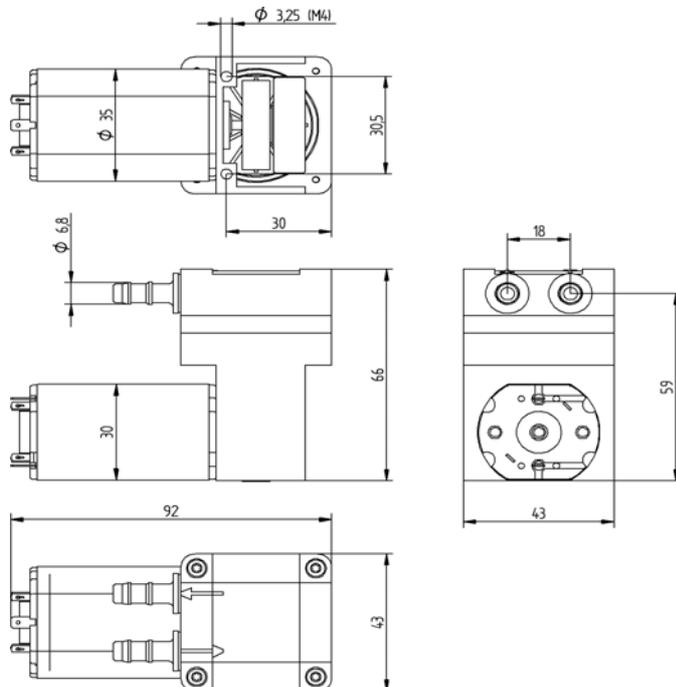
# Eccenter-Diaphragm-Pumps for Gas SP 680 EC Series

## Drawings

SP 680 EC / SP 685 EC



SP 680 EC-LC



Steeler Strasse 477, 45276 Essen, Germany  
Phone: +49 201 316970, Fax: +49 201 3169729  
e-mail: [info@schwarzer.com](mailto:info@schwarzer.com)  
[www.schwarzer.com](http://www.schwarzer.com)