



The pumps listed on this data sheet represent a cross-section of the large number of possibilities for each pump type. Based on our modular pump design, all pumps can be customised exactly to meet the needs of your application - within days and at standard pricing. Please contact us for details.



Product Features

- High efficiency for mobile devices
- Durable design
- Smallest size and low weight
- Low vibration and sound level
- Suitable for any mounting orientation
- Oil-free, maintenance-free, leak-tight

Typical Applications

- Exhaust and flue gas analysis
- Respiratory gas analysis
- Personal gas detectors
- Air sampling
- Pipetting
- SMD assembly
- Negative pressure wound therapy



TYPE	SP 100 EC-DUp			SP 100 EC-DUs		
	parallel tubing			serial tubing		
Operating Voltage [Vdc]	4	6	12	4	6	12
Art. No.	7s20167	7s20169	7s20173	7s20166	7s20168	7s20172
max. Nominal Current [mA]	340	215	90	380	270	100
PERFORMANCE						
max. Flow [l/min]	0,85	1,00	0,85	0,43	0,55	0,43
max. Pressure [bar]	0,6	0,7	0,6	1,5	1,5	1,5
max. Vacuum [mbar]	-550	-550	-550	-800	-800	-800
MOTOR						
Standard Motor	coreless					
Standard Bearings	sintered bearings					
Motor Connection	2 wires					
Optional Motor	brushless without integrated electronics					
Optional Bearings	ball bearings					
MATERIALS						
Standard Pump Head	PPS					
Optional Pump Head	customer specific (upon request)					
Standard Diaphragm	EPDM					
Optional Diaphragm	FKM / customer specific (upon request)					
Standard Valves	EPDM					
Optional Valves	FKM / customer specific (upon request)					
Standard Gaskets	EPDM					
Optional Gaskets	FKM / customer specific (upon request)					
PNEUMATIC CONNECTION						
Standard Connectors	barbed connectors					
Optional Connectors	n/a					
DIMENSIONS + WEIGHT						
Dimensions [mm] W x H x L	14 x 33,3 x 45,5					
Weight [g]	26					

Flow values are subject to the standard conditions specified in DIN 1343. The use of other materials may cause deviations in performance values.

The technical data shown on this data sheet represents the typical mean values achieved by the products in our standard testing procedure.

All data provided is for information only and does not represent production values.

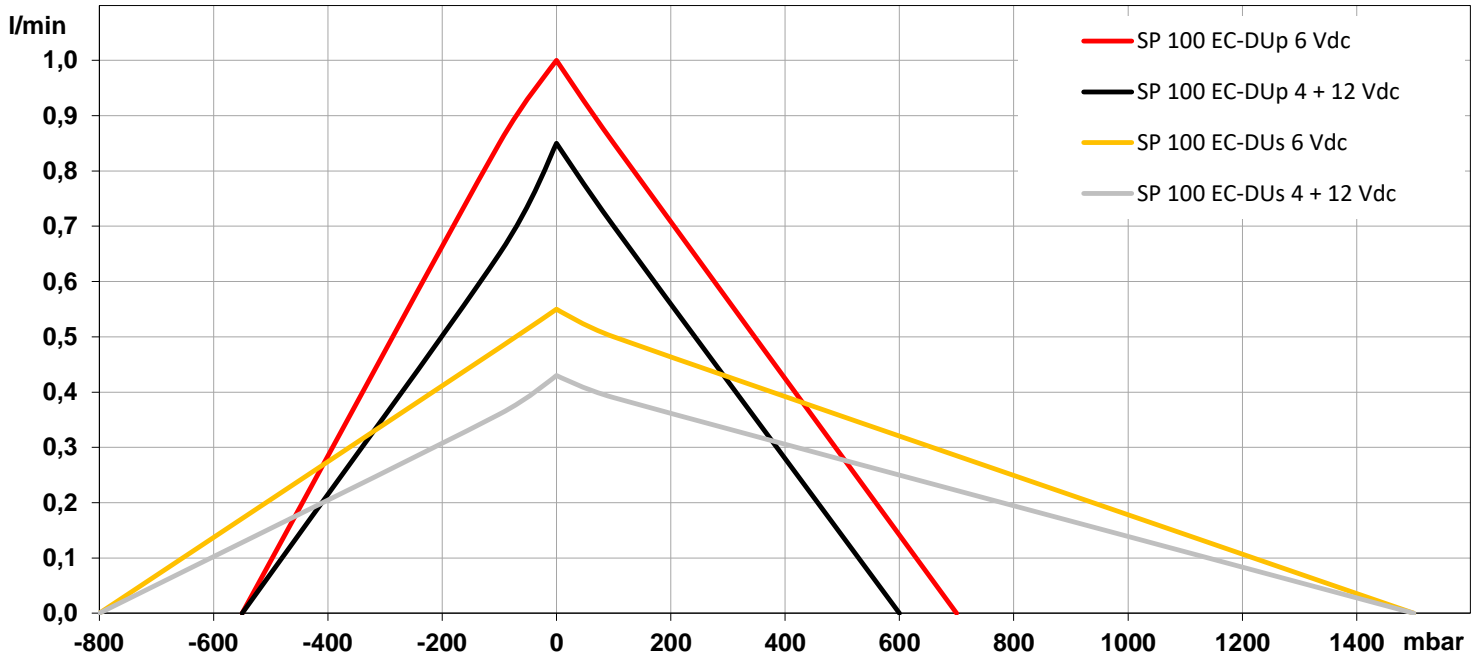
Standard products are subject to change without notice.

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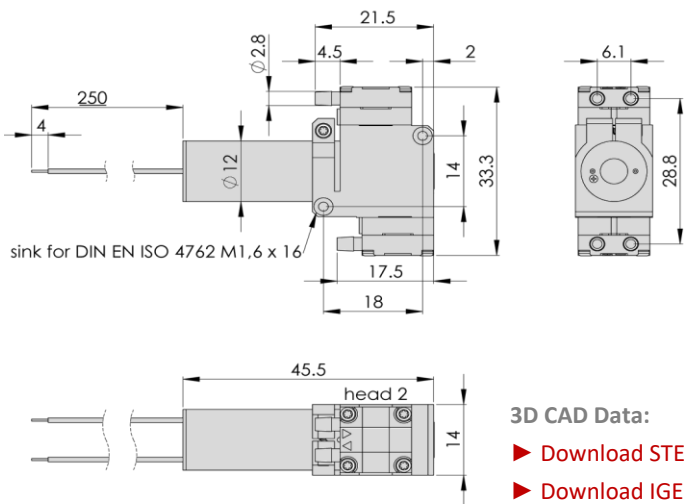


SP 100 EC Dual Head

PERFORMANCE DIAGRAM | SP 100 EC-DUp • SP 100 EC-DUs



DRAWING | SP 100 EC-DUp • SP 100 EC-DUs



Drawing shows standard orientation of pneumatic connectors. (3 alternative orientations possible)

3D CAD Data:

- ▶ Download STEP
- ▶ Download IGES

You can also download the 3D CAD files from the SP website:
 ▶ www.schwarzer.com/download

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