

PUMPS-PERISTALTIC

SP100VOA

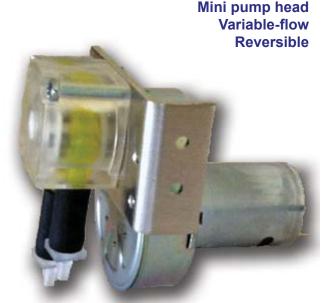
New SmallPumps™ SP100VOA Variable-Flow OEM

These low-cost peristaltic pumps provide variable flow and exception life performance. Flow rates are available from 0 to 62 ml/min. They adapt easily to almost any equipment application. Enjoy the benefits of peristaltic pumps in your fluid transfer application.

Select from 6 different Vdc motor speeds, three different tubing sizes and a variety of tubing materials. Tygon® A60G tubing offers the longest pump life, Silicone is the softest with higher flow rates. Viton® provides excellent chemical resistance. New models available with optional ABS housing, power jack and on/ off power switch.

These all-plastic pumps have ABS plastic housings, acetal rotor assembly with four stainless steel rollers. These brush Vdc motors are reversible. Silicone and Tygon® A60G pump systems are supplied with polypropylene fittings. Viton systems are supplied with PVDF fittings. One year warranty.

Installation Note: These brush-type Vdc motors are rated for intermittent duty. Request information on our brushless dc motors for continuous-duty applications.



Compact, variableflow SP100 Vdc pumps.

SPECIAL FEATURES

Fluid only contacts the tubing Self-priming, run dry without damage Variable-flow 12 & 24Vdc motors Pump viscous fluids and slurries Compact size

SPECIFICATIONS

Tygon, Viton Silicone
Max. Fluid Pressure: 30 psig (2 bar) 10 psig (0.7 bar)

Max. Suction Lift:

Measurement Range: See ordering table (page 2)

Accuracy: $\pm 10\%$ full scaleRepeatability: $\pm 10\%$ full scaleMax. Fluid Temp.: 93° C (200°F)Duty Cycle:Intermittent

Operating Temp.: 0 to 50°C (32 to 122°F)

Enclosure: open motor systems; ABS optional Wetted parts: Silicone, Tygon® A60G or Viton® 12 or 24Vdc; up to 400 mA

Dimensions (W x H x D): 60 x 74 x 90 mm (2.4 x 2.9 x 3.5 in.) (with housing) 84 x 140 x 97 mm (3.3 x 5.5 x 3.8 in) Weight: 260 g (9.2 oz); 570 kg (20 oz)

Inquire for details on manual or remote control PCB systems.

APPLICATIONS

Chemical metering
Reagent dispensing
Condensate removal
Analytical instruments
Research & Development

SP100VOA Max Flowrates (ml/min)

Motor			Tubing ID (mm)			
<u>RPM</u>	<u>Vdc</u>	<u>Amps</u>	3.0	1.6	<u>0.8</u>	
330	12	400 mA	62	17	5.6	
150	12	300 mA	28	8	2.5	
70	12	200 mA	13	3.6	1.2	
300	24	200 mA	56	16	5	
220	24	150 mA	41	11	3.7	
140	24	100 mA	26	7	2.4	

Flow rate listed are nominal and will vary depending upon fluid viscosity and back pressure. Specifications listed are for Tygon A60G (formerly Norprene) tubing. Silicone flow rates are approx 10-20% higher. Viton flow rates slightly lower.

SP100VOA-Peri Pumps

NA - Not Available at this time NR - Not Recommended

SP100VOA Ordering Information - (Flow rates listed are for Tygon A60G tubing; Silicone is 10-20% higher).

3F 100 VOA Ordering information — (Flow rates listed are for Tygon AooG tubing; Silicone is 10-20% nigner).								
Flow Rate	<u>Tubing</u>			Pump Part No.				
ml/min	<u>ID</u>	RPM Range	<u>Tygon[®] A60G</u>	<u>Silicone</u>	<u>Viton</u> ®			
12Vdc Pumps - Variable-flow; reversible; up to 400 mA current draw								
0 to 62	3.0 mm (1/8")	0 to 330	SP101-513	SP100-513	SP102-513			
0 to 28	3.0 mm (1/8")	0 to 150	SP101-512	SP100-512	SP102-512			
0 to 17	1.6 mm (1/16")	0 to 330	SP101-510	SP100-510	SP102-510			
0 to 13	3.0 mm (1/8")	0 to 70	SP101-509	SP100-509	SP102-509			
0 to 8	1.6 mm (1/16")	0 to 150	SP101-508	SP100-508	SP102-508			
0 to 5.6	0.8 mm (1/32")	0 to 330	SP101-506	SP100-506	SP102-506			
0 to 3.6	1.6 mm (1/16")	0 to 70	SP101-505	SP100-505	SP102-505			
0 to 2.5	0.8 mm (1/32")	0 to 150	SP101-504	SP100-504	SP102-504			
0 to 1.2	0.8 mm (1/32")	0 to 70	SP101-502	SP100-502	SP102-502			
24Vdc Pumps - Variable-flow; reversible; up to 200 mA current draw								
0 to 56	3.0 mm (1/8")	0 to 300	SP101-558	SP100-558	SP102-558			
0 to 41	3.0 mm (1/8")	0 to 220	SP101-557	SP100-557	SP102-557			
0 to 26	3.0 mm (1/8")	0 to 140	SP101-556	SP100-556	SP102-556			
0 to 16	1.6 mm (1/16")	0 to 300	SP101-555	SP100-555	SP102-555			
0 to 11	1.6 mm (1/16")	0 to 220	SP101-554	SP100-554	SP102-554			
0 to 7	1.6 mm (1/16")	0 to 140	SP101-553	SP100-553	SP102-553			
0 to 5	0.8 mm (1/32")	0 to 300	SP101-552	SP100-552	SP102-552			
0 to 3.7	0.8 mm (1/32")	0 to 220	SP101-551	SP100-551	SP102-551			
0 to 2.4	0.8 mm (1/32")	0 to 140	SP101-550	SP100-550	SP102-550			

Flow rates listed are nominal and will vary depending upon fluid viscosity and back pressure.

Customize your OEM pumps!

Order your OEM pump with an optional protective ABS plastic housing and power switch. All cased and switched models include a 5.5 x 2.5 mm jack for quick power connect. Add the following letter(s) to the p/n to include the options. "C" ABS plastic housing (e.g. SP101C-551).

"CS" ABS plastic housing w/ on-off switch (e.g. SP101CS-551).



Specifications subject to change.

APT Instruments provides no warranty on usage of pumps or life of tube.

Immersion and life tests are recommended prior to use.

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For more information contact:

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^{*}Other special tubing options are available on special order. Call for details.