

PUMPS-PERISTALTIC

## SP100VCA

## **New SP100VCA Variable-Flow Pumps**

These low-cost peristaltic pumps are among the most compact, most powerful variable-flow pumps in the market. Flow rates are available from 0 to 62 ml/min. They adapt easily to almost any instrument application. Enjoy the benefits of peristaltic pumps in your fluid transfer application.

Select from two different motor speeds, three different tubing sizes and a variety of tubing materials. Tygon<sup>®</sup> A60F tubing offers the longest pump life, Silicone is the softest with higher flow rates. Viton<sup>®</sup> provides excellent chemical resistance. Modular power supplies and battery packs are available.

The pumpheads have SAN plastic housings, acetal rotor assembly with four stainless steel rollers. These brush Vdc motors are reversible. Silicone and Tygon<sup>®</sup> A60F pump systems are supplied with polypropylene fittings. Viton<sup>®</sup> 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 heavy-duty and brushless DC motors for continuous-duty applications.

## SPECIAL FEATURES

Fluid only contacts the tubing Self-priming, run dry without damage Variable-flow 12Vdc motors Consistent metering capability Compact size

Tygon<sup>®</sup>, Viton<sup>®</sup>

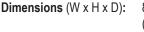
0.9 kg (2 lbs)

## **SPECIFICATIONS**

Max. Fluid Pressure: Max. Suction Lift: 0.8 and 1.6 mm ID 3.0 and 5.0 mm ID Flow Range: Accuracy: Repeatability: Max. Fluid Temp.: Duty Cycle: Operating Temp.: Enclosure: Wetted parts: Power:

30 psig (2 bar) 10 psig (0.7 bar) 16-ft (4.8 m) H<sub>2</sub>0 16-ft (4.8 m) H<sub>2</sub>0 25-ft (7.5 m) H<sub>2</sub>0 20-ft (6 m) H<sub>2</sub>0 See ordering table (page 2) ±5% full scale ±5% full scale 93°C (200°F) Intermittent 0 to 50°C (32 to 122°F) ABS plastic Various tubing materials. 12Vdc; 150 to 700 mA, 115V (24Vdc models available) 84 x 140 x 97 mm: (3.3 x 5.5 x 3.8 in.)

Silicone



Shipping Wt:

Variable-flow Reversible Remote Control



Compact, variable-flow SP100VCA pumps with optional remote control.

### **APPLICATIONS**

Chemical metering Reagent dispensing Waste chemical removal Analytical instruments Research & Development

### SP100VCA Max Flowrates (ml/min)

Motor			Tubing ID (mm)			
<u>RPM</u>	<u>Vdc</u>	<u>Amps</u>	<u>3.0</u>	<u>1.6</u>	<u>0.8</u>	
330	12	700 mA	62	17	5.6	
150	12	400 mA	28	8	2.5	
70	12	200 mA	13	3.6	1.2	

Flow rates listed are nominal and will vary depending upon fluid viscosity and back pressure. Specifications listed are for Tygon A60F (formerly Norprene Food) tubing. Silicone flow rates are approx 10-20% higher. Viton flow rates slightlyl lower. *Other RPMs and 24 Vdc systems are available. Inquire.* 

# SP100VCA-Peri Pumps

### **SP100VCA Ordering Information** – (Flow rates listed are for Tygon<sup>®</sup> A60G tubing; Silicone is 10-20% higher).

<u>Flow Rate</u> ml/min	<u>Tubing</u> ID	RPM Range	V-Flow.I/O	Pump Part No.	V-Flow,I/O/R,Rem
	- Variable-flow; up to 500				
0 to 62	3.0 mm (1/8")		•		
0 to 17	1.6 mm (1/16")	0 to 330	SP10XV1-513	SP10XV1R-513	SP10XV3R-513
0 to 5.6	0.8 mm (1/32")				
0 to 28	3.0 mm (1/8")				
0 to 8	1.6 mm (1/16")	0 to 150	SP10XV1-512	SP10XV1R-512	SP10XV3R-512
0 to 2.5	0.8 mm (1/32")				
0 to 13	3.0 mm (1/8")				
0 to 3.6	1.6 mm (1/16")	0 to 70	SP10XV1-509	SP10XV1R-509	SP10XV3R-509
0 to 1.2	0.8 mm (1/32")				

V-Flow=Variable-flow; I/O=On/Off Switch; I/O/R=On/Off/Reverse Switch; Rem=Remote Speed (0-5Vdc); Rem Start/Stop; Remote Direction. Flow rates listed are nominal and will vary depending upon fluid viscosity and back pressure.

Other RPMs and 24 Vdc systems are available. Other motor rpms and special tubing options are available on special order. Call for details.

### **Tubing Set Material Selection**

Tubing Oet Material Delection							
Part No:	<b>Description</b>	<u>Sizes Incl.(mm)</u>	<u>Fitting</u>	Application Recommendations			
SP101F-980AF	Tygon <sup>®</sup> A60F	3, 1.6, 0.8 ID	PP	Longest flex life, Beige, Food-Grade			
SP104L-980AF	Tygon <sup>®</sup> LFL	3, 1.6 ID	PP	Long flex life, Clear, USP, FDA			
SP100-980AF	Silicone	3, 1.6, 0.8 ID	PP	Good flex life, Translucent, General Purpose			
SP100P-980AF	Tygon <sup>®</sup> 3350 (Sil)	3, 1.6 ID	PP	Good flex life, Translucent, USP, ultra smooth			
SP104P-980AF	<u>Tygon<sup>®</sup> F-4040</u>	3, 1.6 ID	PP	Good flex life, Yellow Transl, Fuel/Lubricant			
SP104X-980AF	Tygon <sup>®</sup> XL-60	3, 1.6 ID	PP	Good flex life Clear, General Purpose			
SP101R-980AF	Tygon <sup>®</sup> Chemical	3, 1.6 ID	PP	Long flex life, Beige, Chem Resistant liner			
SP102-980AF	Viton®	3, 1.6, 0.8 ID	PVDF	Good flex life, Black, FDA, Chem Resist-Organics			
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### VAC power supply

Convert these compact drives to VAC models with a compact power supply. 5.5 OD x 2.5mm ID (center + ) connector. Order the optional power supply. **PS100.015** Power supply, 115Vac/12Vdc, 2A; US Std plug.

PS100.015E Power supply, 230Vac/12Vdc, 2A; Europ. plug.

For more information contact:

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#### 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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