

#### PUMPS-PERISTALTIC

SP200VOBLA

## SP200 Brushless DC Variable-Flow OEM Pumps

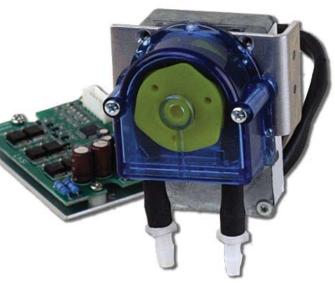
The SmallPumps™ SP200 pumps are compact, low-flow pumps that are ideal for low flow metering applications. Flow rates are available from 0 to 200 ml/min. Brushless DC pumps are designed for continuous-duty operation. Motors have tachometer output. External 0-5Vdc analog signal required to vary pump speed. Adapt them to almost any low-flow fluid transfer application.

Select from two different motor voltages, two motor speeds 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.

These all-plastic pumps have SAN plastic housings, acetal rotor assembly with three nylon rollers. The Vdc motors are reversible brushless DC style. Optional PVC housing. They are rated for continuous-duty. Shipping Wt. 1 lb. (0.4 kg). Two year warranty.

Installation Note: Motor control PCB provides all power supplies and regulation required for proper operation.

All Plastic pump head Variable-flow Reversible



Compact, variable-flow SP200VOBLA pumps.

#### SPECIAL FEATURES

Fluid only contacts the tubing Self-priming, run dry without damage Pump viscous fluids and slurries Continuous-duty brushless DC motors Compact design

#### **SPECIFICATIONS**

Tygon® A60G, Viton® Silicone

Max. Fluid Pressure: 30 psig (2 bar) 10 psig (0.7 bar)

Max. Suction Lift:

Flow Range: See ordering table (page 2)

Duty Cycle (motor life): Continuous, 20,000 hours Operating Temp.: 0 to 50°C (32 to 122°F)

Enclosure: open motor systems; PVC optional Wetted parts: Silicone, Tygon® A60G or Viton® 12 or 24Vdc; up to 0.8 A

Dimensions (W x H x D): 66 x 81 x 121 mm (2.6 x 3.2 x 4.8 in.)

**Shipping Wt:** 0.6 kg (1.2 lb)

#### **APPLICATIONS**

Chemical metering
Detergent dispensing
Condensate removal
Analytical instruments
Research & Development

#### SP200VOBLA Max Flowrates (ml/min)

Motor		Tubing ID (mm)						
<u>RPM</u>	<u>Vdc</u>	<u>Amps</u>	<u>5</u>	<u>3</u>	<u>1.6</u>	<u>0.8</u>		
200	12 or 24	0.6A	200	120	28	8		
10	12 or 24	0.3A	10	6	1.4	0.4		

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 slightly higher. Viton flow rates slightly lower.

# SP200VOBLA-Peri Pumps

## SP200VOBLA Ordering Information — (Flow rates listed are for Tygon A60G tubing; Silicone is slightly higher). Flow Rate Pump Part No.

Flow Rate	Tubing		Pump Part No.				
ml/min	<u>ID</u>	RPM Range (Vdc)	<u>Tygon<sup>®</sup>A60G</u>	Silicone	<u>Viton</u> ®		
12Vdc Pumps - Var	iable-flow; reversible;	up to 0.6 A current draw	V				
0 to 0.4	0.8 mm (1/32")	0 to 10	SP201-201A	SP200-201A	SP202-201A		
0 to 1.4	1.6 mm (1/16")	0 to 10	SP201-204A	SP200-204A	SP202-204A		
0 to 6	3.0 mm (1/8")	0 to 10	SP201-207A	SP200-207A	SP202-207A		
0 to 8	0.8 mm (1/32")	0 to 200	SP201-213A	SP200-213A	SP202-213A		
0 to 10	5.0 mm (3/16")	0 to 10	SP201-210A	SP200-210A	SP202-210A		
0 to 16	1.6 mm (1/16")	0 to 200	SP201-214A	SP200-214A	SP202-214A		
0 to 120	3.0 mm (1/8")	0 to 200	SP201-215A	SP200-215A	SP202-215A		
0 to 200	5.0 mm (3/16")	0 to 200	SP201-216A	SP200-216A	SP202-216A		
24Vdc Pumps - Variable-flow; reversible; up to 0.3A current draw							
0 to 0.4	0.8 mm (1/32")	0 to 10	SP201-251A	SP200-251A	SP202-251A		
0 to 1.4	1.6 mm (1/16")	0 to 10	SP201-254A	SP200-254A	SP202-254A		
0 to 6	3.0 mm (1/8")	0 to 10	SP201-257A	SP200-257A	SP202-257A		
0 to 8	0.8 mm (1/32")	0 to 200	SP201-263A	SP200-263A	SP202-263A		
0 to 10	5.0 mm (3/16")	0 to 10	SP201-260A	SP200-260A	SP202-260A		
0 to 16	1.6 mm (1/16")	0 to 200	SP201-264A	SP200-264A	SP202-264A		
0 to 120	3.0 mm (1/8")	0 to 200	SP201-265A	SP200-265A	SP202-265A		
0 to 200	5.0 mm (3/16")	0 to 200	SP201-266A	SP200-266A	SP202-266A		
		pon fluid viscosity and back pre-	ssure.				
Other special tubing option	ns are available on special or	der. Call for details.					

### **Customize your OEM pumps!**

Order your OEM pump with an optional protective PVC plastic housing. All models include small control board with inputs for pump operation - start/stop, fwd/rev, speed control and tachometer output.

Contact us for details on special controls or packaging.



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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