

## New SP200VCHD Variable-Flow OEM Pumps

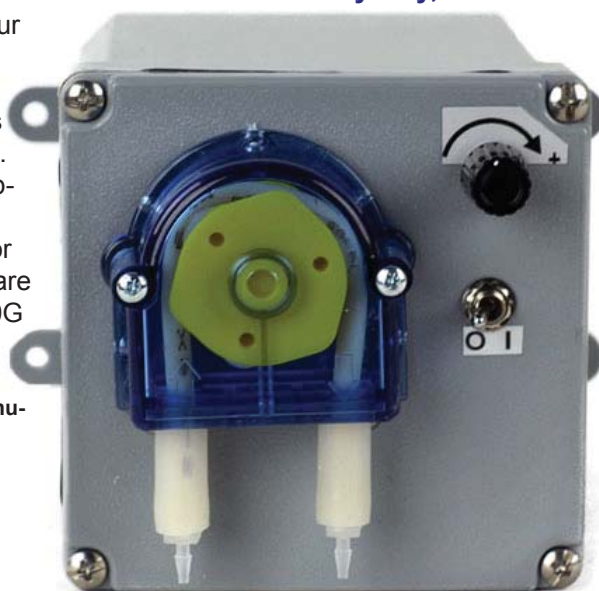
These low-cost peristaltic pumps are among the most compact, most powerful variable-flow pumps in the market. Flow rates are available from 0 to 250 ml/min. They adapt easily to almost any instrument application. Enjoy the benefits of peristaltic pumps in your fluid transfer application.

Select from 2 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. Modular power supplies and battery packs are available.

These all-plastic pumps have SAN plastic housings, acetal rotor assembly with three nylon rollers. These heavy-duty Vdc motors are reversible and rated for continuous-duty. Silicone and Tygon® A60G pump systems are supplied with polypropylene fittings. Viton systems are supplied with PVDF fittings. One year warranty.

**Installation Note:** These heavy-duty motors can be used for long-term continuous-duty applications. Also consider our brushless motor options.

**Variable-flow  
Reversible  
Heavy-duty, Vdc motors**



Compact, variable-flow  
SP200 Vdc HD pumps

### SPECIAL FEATURES

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

### SPECIFICATIONS

	Tygon® A60G, Viton®	Silicone
Max. Fluid Pressure:	30 psig (2 bar)	10 psig (0.7 bar)
Max. Suction Lift:		
0.8 and 1.6 mm ID	16-ft (4.8 m) H <sub>2</sub> O	16-ft (4.8 m) H <sub>2</sub> O
3.0 and 5.0 mm ID	25-ft (7.5 m) H <sub>2</sub> O	25-ft (7.5 m) H <sub>2</sub> O
Flow Range:	See ordering table (page 2)	
Accuracy:	±5% full scale	
Repeatability:	±5% full scale	
Max. Fluid Temp.:	93°C (200°F)	
Duty Cycle:	Continuous, Thermal cutoff	
Operating Temp.:	0 to 50°C (32 to 122°F)	
Enclosure:	PVC	
Wetted parts:	Silicone, Norprene® or Viton®	
Power:	12Vdc; 150 to 750 mA (24Vdc models available)	
Dimensions (W x H x D):	100 x 100 x 132 mm; (4 x 4 x 5.2 in.)	
Shipping Wt:	1.4 kg (3 lbs)	

### APPLICATIONS

*Chemical metering  
Detergent dispensing  
Condensate removal  
Analytical instruments  
Research & Development*

### SP200VCHD Max Flowrates (ml/min)

Motor	Tubing ID (mm)					
RPM	Vdc	Amps	5.0	3.0	1.6	
250	12	750 mA	250	150	40	
35	12	150 mA	38	22	5.5	

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. 24Vdc systems available.

# SP200VCHD-Peri Pumps

## SP200VCHD Ordering Information – (Flow rates listed are for Tygon A60G tubing; Silicone is 10-20% higher).

Flow Rate	Tubing			Pump Part No.	
ml/min	ID	RPM Range	V-Flow,I/O	V-Flow,I/O/R	V-Flow,I/O/R,Rem
12Vdc Pumps - Variable-flow; up to 750mA current draw; Select Tubing Material below.					
0 to 250	5 mm (3/16")				
0 to 150	3 mm (1/8")	0 to 250	SP20XV1-415	SP20XV1R-415	SP20XV3R-415
0 to 40	1.6 mm (1/16")				
0 to 38	5 mm (3/16")				
0 to 22	3 mm (1/8")	0 to 35	SP20XV1-408	SP20XV1R-408	SP20XV3R-408
0 to 5.5	1.6 mm (1/16")				

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.

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

## Tubing Set Material Selection

Part No:	Description	Sizes Incl.(mm)	Fitting	Application Recommendations
SP201-980AF	Tygon® A60G	5, 3, 1.6 ID	PP	Longest flex life, Black, Good with Acids/Bases
SP201F-980AF	Tygon® A60F	5, 3, 1.6 ID	PP	Longest flex life, Beige, Food-Grade
SP204L-980AF	Tygon® LFL	5, 3, 1.6 ID	PP	Long flex life, Clear, USP, FDA
SP200-980AF	Silicone	5, 3, 1.6 ID	PP	Good flex life, Translucent, General Purpose
SP200P-980AF	Tygon® 3350 (Sil)	5, 3, 1.6 ID	PP	Good flex life, Translucent, USP, ultra smooth
SP204P-980AF	Tygon® F-4040	5, 3, 1.6 ID	PP	Good flex life, Yellow Transl, Fuel/Lubricant
SP204X-980AF	Tygon® XL-60	5, 3, 1.6 ID	PP	Good flex life Clear, General Purpose
SP201R-980AF	Tygon® Chemical	5, 3 ID	PP	Long flex life, Beige, Chem Resistant liner
SP202-980AF	Viton®	5, 3, 1.6 ID	PVDF	Good flex life, Black, FDA, Chem Resist-Organics

## VAC power supply

Convert these compact drives to VAC models with a compact power supply. 5.5 OD x 2.5mm ID (center + ) connector. Add the suffix to the pump part number to include the power supply.

-U Power supply, 100-240Vac/12Vdc, 1A; US Std plug.

-E Power supply, 100-240Vac/12Vdc, 1A; 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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