

New SP200VCBLA Variable-Flow Cased Pumps

The SP200 pumps are compact, variable-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 applications. Enjoy the benefits of peristaltic pumps in your fluid transfer application.

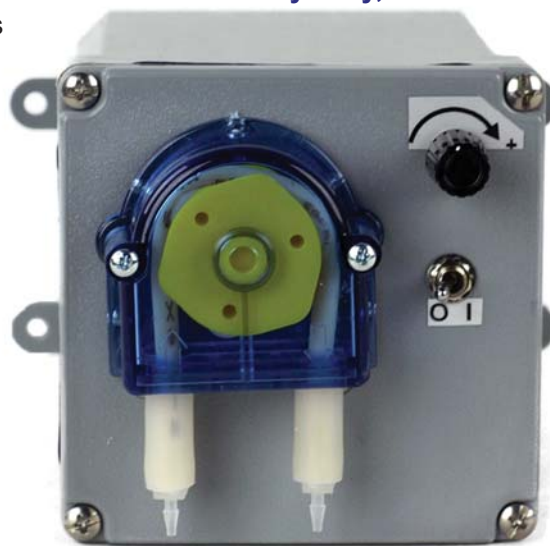
Select from 2 different Vdc motor speeds, three different tubing sizes and a variety of tubing materials. Tygon® A60G tubing offers the longest pump life, Silicone is the softest with higher flow rates. Viton® provides excellent chemical resistance. Modular power supplies and battery packs are available.

The all-plastic pumps have SAN plastic housings, acetal rotor assembly with three nylon rollers. These heavy-duty, brushless 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 BLDC motors are rated for long-term continuous-duty applications.

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



Compact, variable-flow
SP201F Vdc BLDC pump.

SPECIAL FEATURES

Fluid only contacts the tubing

Rated for continuous-duty

Self-priming, run dry without damage

Compact variable-flow design

Consistent metering capability

SPECIFICATIONS

	Tygon®, 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 ₂ O	16-ft (4.8 m) H ₂ O
3.0 and 5.0 mmID	25-ft (7.5 m) H ₂ O	25-ft (7.5 m) H ₂ O
Flow Range:	See ordering table (page 2)	
Accuracy:	±2% full scale	
Repeatability:	±2% full scale	
Max. Fluid Temp.:	93°C (200°F)	
Duty Cycle:	Continuous; 20,000 hrs	
Operating Temp.:	0 to 50°C (32 to 122°F)	
Enclosure:	PVC	
Wetted parts:	Silicone, Tygon® A60G or Viton®	
Power:	12Vdc; up to 800 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

SP200VCBLA Max Flowrates (ml/min)

Motor	Tubing ID (mm)					
RPM	Vdc	Amps	5.0	3.0	1.6	
200	12	0.6A	200	120	28	
10	12	0.3A	10	6	1.4	

Flow rates listed are nominal and will vary depending upon fluid viscosity and back pressure. Specifications listed are for Tygon A60G tubing. Silicone flow rates are approx 10-20% higher. Viton flow rates slightly lower. 24Vdc systems available.

SP200VCBLA-Peri Pumps

SP200VCBLA Ordering Information – (Flow rates listed are for Tygon® A60G; Silicone is 10-20% higher).

Flow Rate ml/min	Tubing ID	RPM Range	V-Flow,I/O	Pump Part No. V-Flow,I/O/R	V-Flow,I/O/R,Rem
12Vdc Pumps - Variable-flow; up to 800mA current draw; Select Tubing Material below.					
0 to 200	5 mm (3/16")				
0 to 120	3 mm (1/8")	0 to 200	SP20XV1-216A	SP20XV1R-216A	SP20XV3R-216A
0 to 28	1.6 mm (1/16")				
0 to 10	5 mm (3/16")				
0 to 6	3 mm (1/8")	0 to 10	SP20XV1-213A	SP20XV1R-213A	SP20XV3R-213A
0 to 1.4	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.

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.

SmallPumps—TM Advanced Product Technology, LLC Viton—Reg TM DuPont Dow Elastomers LLC

Tygon—Reg TM Saint Gobain Performance Plastics Corp.

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