

SP200VOHD 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 4 different Vdc motor speeds, four 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 PVC housing, power jack and on/off power switch.

These all-plastic pumps have SAN plastic housings, acetal rotor assembly with three nylon 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 continuous-duty. Request information on our brushless dc motors for long-term continuous-

**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 12 & 24Vdc motors*
- Consistent metering capability*
- Compact size*

SPECIFICATIONS

Inquire for details on manual or remote control PCB systems.

	Tygon® A60G, Viton®	Silicone
Max. Fluid Pressure: (HP 3 mm Tyg A60F)	30 psig (2 bar) 70 psig (4.7 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 mm ID	25-ft (7.5 m) H ₂ O	25-ft (7.5 m) H ₂ O
Flow Range:	See ordering table (page 2)	
Accuracy:	±10% full scale	
Repeatability:	±10% 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:	open motor systems; PVC optional	
Wetted parts:	Silicone, Tygon®A60G or Viton®	
Power:	12 or 24Vdc; 150 to 700 mA	
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 lbs)	

APPLICATIONS

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

SP200VOHD Max Flowrates (ml/min)

Motor RPM	Vdc	Amps	Tubing ID (mm)			
			5.0	3.0	1.6	0.8
250	12	700 mA	250	150	35	10
100	12	500 mA	100	60	14	4
70	12	250 mA	62	38	9.4	2.8
35	12	150 mA	38	22	5.5	1.6

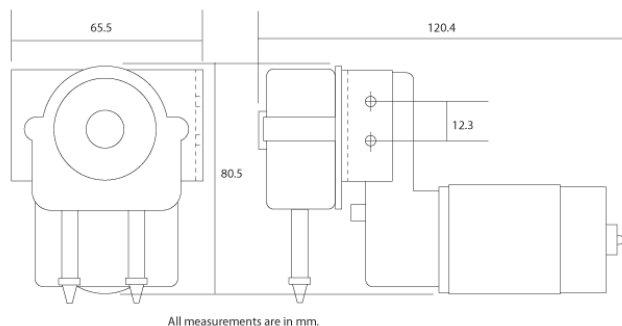
Flow rate listed are nominal and will vary depending upon fluid viscosity and back pressure. Specifications listed are for Tygon A60G (formerly Norprene) tubing. Silicone flow rates are approx 10-20% higher. Viton flow rates slightly lower.

SP200VOHD-Peri Pumps

SP200VOHD Ordering Information – (Flow rates listed are for Tygon A60G tubing; Silicone is 10-20% higher).

<u>Flow Rate</u> ml/min	<u>ID</u>	<u>RPM Range</u>	<u>Tygon® A60G</u>	<u>Pump Part No.</u>	
				<u>Silicone</u>	<u>Viton®</u>
12Vdc Pumps - Variable-flow; reversible; up to 700 mA current draw					
Standard Pump Range					
0 to 1.6	0.8 mm (1/32")	0 to 40	SP201-400	SP200-400	SP202-400
0 to 2.8	0.8 mm (1/32")	0 to 75	SP201-401	SP200-401	SP202-401
0 to 4	0.8 mm (1/32")	0 to 100	SP201-402	SP200-402	SP202-402
0 to 5.5	1.6 mm (1/16")	0 to 40	SP201-403	SP200-403	SP202-403
0 to 9.4	1.6 mm (1/16")	0 to 75	SP201-404	SP200-404	SP202-404
0 to 10	0.8 mm (1/32")	0 to 250	SP201-412	SP200-412	SP202-412
0 to 14	1.6 mm (1/16")	0 to 100	SP201-405	SP200-405	SP202-405
0 to 22	3.0 mm (1/8")	0 to 40	SP201-406	SP200-406	SP202-406
0 to 35	1.6 mm (1/16")	0 to 250	SP201-413	SP200-413	SP202-413
0 to 38	3.0 mm (1/8")	0 to 75	SP201-407(HP)	SP200-407	SP202-407
0 to 38	5.0 mm (3/16")	0 to 40	SP201-408	SP200-408	SP202-408
0 to 60	3.0 mm (1/8")	0 to 100	SP201-409(HP)	SP200-409	SP202-409
0 to 62	5.0 mm (3/16")	0 to 75	SP201-410	SP200-410	SP202-410
0 to 100	5.0 mm (3/16")	0 to 100	SP201-411	SP200-411	SP202-411
0 to 150	3.0 mm (1/8")	0 to 250	SP201-414(HP)	SP200-414	SP202-414
0 to 250	5.0 mm (3/16")	0 to 250	SP201-415	SP200-415	SP202-415
24Vdc Pumps - Variable-flow; reversible; up to 400 mA current draw					
Standard Pump Range					
0 to 1.6	0.8 mm (1/32")	0 to 40	SP201-450	SP200-450	SP202-450
0 to 2.8	0.8 mm (1/32")	0 to 75	SP201-451	SP200-451	SP202-451
0 to 4	0.8 mm (1/32")	0 to 100	SP201-452	SP200-452	SP202-452
0 to 5.5	1.6 mm (1/16")	0 to 40	SP201-453	SP200-453	SP202-453
0 to 9.4	1.6 mm (1/16")	0 to 75	SP201-454	SP200-454	SP202-454
0 to 10	0.8 mm (1/32")	0 to 250	SP201-462	SP200-462	SP202-462
0 to 14	1.6 mm (1/16")	0 to 100	SP201-455	SP200-455	SP202-455
0 to 22	3.0 mm (1/8")	0 to 40	SP201-456	SP200-456	SP202-456
0 to 35	1.6 mm (1/16")	0 to 250	SP201-463	SP200-463	SP202-463
0 to 38	3.0 mm (1/8")	0 to 75	SP201-457	SP200-457	SP202-457
0 to 38	5.0 mm (3/16")	0 to 40	SP201-458	SP200-458	SP202-458
0 to 60	3.0 mm (1/8")	0 to 100	SP201-459	SP200-459	SP202-459
0 to 62	5.0 mm (3/16")	0 to 75	SP201-460	SP200-460	SP202-460
0 to 100	5.0 mm (3/16")	0 to 100	SP201-461	SP200-461	SP202-461
0 to 150	3.0 mm (1/8")	0 to 250	SP201-464	SP200-464	SP202-464
0 to 250	5.0 mm (3/16")	0 to 250	SP201-465	SP200-465	SP202-465

Flow rates listed are nominal and will vary depending upon fluid viscosity and back pressure. Other special tubing options are available on special order. Call for details.



All measurements are in mm.

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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Norprene—Reg TM Saint-Gobain Performance Plastics
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Customize your OEM pumps!

Order your OEM pump with an optional protective PVC 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" PVC plastic housing (e.g. SP201C-402).

"CS" PVC plastic housing w/ on-off switch (e.g. SP201CS-402).

For more information contact:

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