New 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 0.35 to 100 ml/min.They adapt easily to almost any instrument application. Enjoy the benefits of peristaltic pumps in your fluid transfer application.

Select from 3 different Vdc motor speeds, four different tubing sizes and a variety of tubing materials. Norprene® 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/reverse power switch. For greater chemical resistance, check out the new Chem*sure® tubing.

These all-plastic pumps have SAN plastic housings, acetal rotor assembly with three nylon rollers. These brush Vdc motors are reversible. Silicone and Norprene 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 (SP200VOBL) for long-term continuous-duty applications.

Variable-flow
Reversible
Heavy-duty, Vdc Motors

Compact, variable-flow SP200 Vdc HD pumps.

Inquire for details on manual or remote control PCB systems.

SPECIAL FEATURES

Fluid only contacts the tubing
Self-priming, run dry without damage
Variable-flow12 or 24Vdc motors
Consistent metering capability
Compact size

APPLICATIONS

Chemical metering
Detergent dispensing
Condensate removal
Analytical instruments
Research & Development

SPECIFICATIONS

	Norprene	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_20	16-ft (4.8 m) H_20
3.0 and 5.0 mm ID	25-ft (7.5 m) H_20	25-ft (7.5 m) H_20
Measurement Range:	See ordering table (page 2)	
Accuracy:	±10% full scale	
Repeatability:	±10% full scale	
Max. Fluid Temp.:	93ºC (200ºF)	
Duty Cycle:	Continuous, Thermal cutoff	
Operating Temp.:	0 to 50ºC (32 to 122ºF)	
Enclosure:	open motor systems; PVC optional	
Wetted parts:	Silicone, Norprene® or Viton®	
Power:	12 or 24Vdc; up to 3.6W	
Dimensions (W x H x D):	66 x 81 x 121 mm; (2.6 x 3.2 x 4.8 in.)	
(with case)	100 x 100 x 137 mm (4 x 4 x 5.4 in.)	
Shipping Wt:	0.6 kg (1.2 lbs)	

SP200VOHD Max Flowrates (ml/min)

Motor			Tubing ID (mm)			
RPM	Vdc	Watts	5.0	3.0	1.6	0.8
100	12 / 24	3.6	100	60	14	4
70	12 / 24	3	62	38	9.4	2.8
35	12 / 24	1.8	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 Norprene tubing. Silicone flow rates are approx 10-20% higher. Viton flow rates slightly lower.

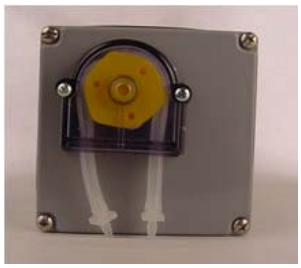
SP200VOHD-Peri Pumps

NA - Not Available at this time
NR - Not Recommended

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

Flow ml/min	Tubing ID	RPM Range (Vdc)	Model No.	Pump Part No. Norprene®	Silicone	Viton®
12Vdc Pumps - Variable-flow; reversible						
0.35 to 1.6	0.8 mm (1/32")	9 to 40 (4 to 12Vdc)	SP20XX.008.JV00.00_	**SP201.400**	**SP200.400**	**SP202.400**
0.6 to 2.8	0.8 mm (1/32")	16 to 75 (5 to 12Vdc)	SP20XX.008.IV00.00_	**SP201.401**	**SP200.401**	**SP202.401**
0.9 to 4	0.8 mm (1/32")	22 to 100 (5 to 12Vdc)	SP20XX.008.HV00.00_	**SP201.402**	**SP200.402**	**SP202.402**
1.2 to 5.5	1.6 mm (1/16")	9 to 40 (4 to 12Vdc)	SP20XX.016.JV00.00_	**SP201.403**	**SP200.403**	**SP202.403**
2.1 to 9.4	1.6 mm (1/16")	16 to 75 (5 to 12Vdc)	SP20XX.016.IV00.00_	**SP201.404**	**SP200.404**	**SP202.404**
3.1 to 14	1.6 mm (1/16")	22 to 100 (5 to 12Vdc)	SP20XX.016.HV00.00_	**SP201.405**	**SP200.405**	**SP202.405**
4.9 to 22*	3.0 mm (1/8")	9 to 40 (4 to 12Vdc)	SP20XX.030.JV00.00_	**SP201.406**	**SP200.406**	**SP202.406**
8.4 to 38*	3.0 mm (1/8")	16 to 75 (5 to 12Vdc)	SP20XX.030.IV00.00_	**SP201.407**	**SP200.407**	**SP202.407**
8.4 to 38	5.0 mm (3/16")	9 to 40 (4 to 12Vdc)	SP20XX.050.JV00.00_	**SP201.408**	**SP200.408**	**SP202.408**
13.3 to 60*	3.0 mm (1/8")	22 to 100 (5 to 12Vdc)	SP20XX.030.HV00.00_	**SP201.409**	**SP200.409**	**SP202.409**
13.8 to 62	5.0 mm (3/16")	16 to 75 (5 to 12Vdc)	SP20XX.050.IV00.00_	**SP201.410**	**SP200.410**	**SP202.410**
22 to 100	5.0 mm (3/16")	22 to 100 (5 to 12Vdc)	SP20XX.050.HV00.00_	**SP201.411**	**SP200.411**	**SP202.411**
24Vdc Pumps - Variable-flow; reversible						
0.35 to 1.6	0.8 mm (1/32")	9 to 40 (8 to 24Vdc)	SP20XX.008.MV00.00_	**SP201.450**	**SP200.450**	**SP202.450**
0.6 to 2.8	0.8 mm (1/32")	16 to 75 (10 to 24Vdc)	SP20XX.008.LV00.00_	**SP201.451**	**SP200.451**	**SP202.451**
0.9 to 4	0.8 mm (1/32")	22 to 100 (10 to 24Vdc)	SP20XX.008.KV00.00_	**SP201.452**	**SP200.452**	**SP202.452**
1.2 to 5.5	1.6 mm (1/16")	9 to 40 (8 to 24Vdc)	SP20XX.016.MV00.00_	**SP201.453**	**SP200.453**	**SP202.453**
2.1 to 9.4	1.6 mm (1/16")	16 to 75 (10 to 24Vdc)	SP20XX.016.LV00.00_	**SP201.454**	**SP200.454**	**SP202.454**
3.1 to 14	1.6 mm (1/16")	22 to 100 (10 to 24Vdc)	SP20XX.016.KV00.00_	**SP201.455**	**SP200.455**	**SP202.455**
4.9 to 22*	3.0 mm (1/8")	9 to 40 (8 to 24Vdc)	SP20XX.030.MV00.00_	**SP201.456**	**SP200.456**	**SP202.456**
8.4 to 38*	3.0 mm (1/8")	16 to 75 (10 to 24Vdc)	SP20XX.030.LV00.00_	**SP201.457**	**SP200.457**	**SP202.457**
8.4 to 38	5.0 mm (3/16")	9 to 40 (8 to 24Vdc)	SP20XX.050.MV00.00_	**SP201.458**	**SP200.458**	**SP202.458**
13.3 to 60*	3.0 mm (1/8")	22 to 100 (10 to 24Vdc)	P20XX.030.KV00.00_	**SP201.459**	**SP200.459**	**SP202.459**
13.8 to 62	5.0 mm (3/16")	16 to 75 10 to 24Vdc)	SP20XX.050.LV00.00_	**SP201.460**	**SP200.460**	**SP202.460**
22 to 100	5.0 mm (3/16")	22 to 100 (10 to 24Vdc)	SP20XX.050.KV00.00_	**SP201.461**	**SP200.461**	**SP202.461**

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.



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 part no. to include the options.

"C" PVC plastic housing (e.g. SP201**C**.402).
"CS" PVC plastic housing w/ on-off switch (e.g. SP201**CS**.402).

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 Norton Co. Chemsure–Reg TM W.L. Gore & Associates, Inc.
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