

New SP100VOHD Variable-Flow OEM Pumps

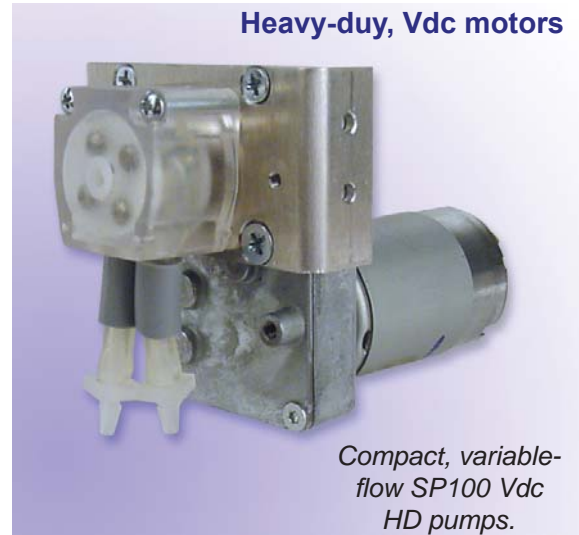
These low cost peristaltic pumps are among the most compact, most powerful variable-flow pumps in the market. Flow rates are available from 0 to 47 ml/min. They adapt easily to almost any instrument application. Enjoy the benefits of peristaltic pumps in your fluid transfer application.

Select from 5 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. New models available with optional PVC housing, power jack and on/off power switch. Many models can use multiple pumpheads. Call for details.

All pumpheads have ABS plastic housings, acetal rotor assembly with four stainless steel 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-duty applications.

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



Compact, variable-flow SP100 Vdc HD pumps.

**Dual Channel
Models available!**

Inquire for details on manual or remote control PCB systems.

SPECIAL FEATURES

- Fluid only contacts the tubing*
- Self-priming, run dry without damage*
- Variable-flow 12 Vdc motors*
- Consistent metering capability*
- Multiple pumphead capable.*

APPLICATIONS

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

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	12-ft (3.6 m) H ₂ O	12-ft (3.6 m) H ₂ O
3.0 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, Norprene® or Viton®	
Power:	12Vdc; 150 to 500 mA	
Dimensions (W x H x D):	66 x 74 x 118 mm; (2.6 x 2.9 x 4.6 in.)	
Shipping Wt:	0.6 kg (1.2 lbs)	

SP100VOHD Max Flowrates (ml/min)

Motor RPM	Vdc	Amps	Tubing ID (mm)		
			3.0	1.6	0.8
250	12	700mA	47	15	5
100	12	500 mA	20	6	2
70	12	250 mA	13	3.8	1.3
35	12	150 mA	7.7	2.1	0.7
10	12	150 mA	2	0.6	0.2

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.

SP100VOHD-Peri Pumps

NA - Not Available at this time
NR - Not Recommended

SP100VOHD Ordering Information – (Flow rates listed are for Tygon A60G tubing; Silicone is 10-20% higher).

FlowRate ml/min	Tubing ID	RPM Range	Tygon®-A60G	Pump Part No.	
				Silicone	Viton®
12Vdc Pumps - Variable-flow; reversible					
0 to 47	3 mm (1/8")	0 to 250	SP101-415	SP100-415	SP102-415
0 to 20	3 mm (1/8")	0 to 100	SP101-408	SP100-408	SP102-408
0 to 13	3 mm (1/8")	0 to 75	SP101-407	SP100-407	SP102-407
0 to 13	1.6 mm (1/16")	0 to 250	SP101-414	SP100-414	SP102-414
0 to 7.7	3 mm (1/8")	0 to 40	SP101-406	SP100-406	SP102-406
0 to 6	1.6 mm (1/16")	0 to 100	SP101-405	SP100-405	SP102-405
0 to 5	0.8 mm (1/32")	0 to 250	SP101-413	SP100-413	SP102-413
0 to 3.8	1.6 mm (1/16")	0 to 75	SP101-404	SP100-404	SP102-404
0 to 2.1	1.6 mm (1/16")	0 to 40	SP101-403	SP100-403	SP102-403
0 to 2	3 mm (1/8")	0 to 10	SP101-409	SP100-409	SP102-409
0 to 2	0.8 mm (1/32")	0 to 100	SP101-402	SP100-402	SP102-402
0 to 1.3	0.8 mm (1/32")	0 to 75	SP101-401	SP100-401	SP102-401
0 to 0.7	0.8 mm (1/32")	0 to 40	SP101-400	SP100-400	SP102-400
0 to 0.9	1.6 mm (1/16")	0 to 10	SP101-411	SP100-411	SP102-411
0 to 0.2	0.8 mm (1/32")	0 to 10	SP101-412	SP100-412	SP102-412

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 p/n to include the options.
"C" PVC plastic housing (e.g. SP101C-402).
"CS" PVC plastic housing w/ on-off switch (e.g. SP101CS-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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Tygon—Reg TM Norton Co.
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