

PUMPS-PERISTALTIC

SP100FC

New SmallPumps™ SP100FC Fixed-Flow Pumps

These new low cost peristaltic pumps provide fixed-flow with higher torque performance in a small attractive package. Flow rates are available from 0.09 to 13 ml/min. Select the model with the type of control that you require-manual or remote control. Enjoy the benefits of peristaltic pumps in your fluid transfer application.

Select from 5 different motor speeds, three 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. For greater chemical resistance, check out the new Chem*sure® tubing.

All pumpheads have ABS plastic housings, acetal rotor assembly with four stainless steel rollers. The rugged ABS plastic housing provides protection for the motor and PCB controls. Most of the pumps are reversible. Remote control connections through DB15F connector. 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 intermittent duty. Request information on our brushless dc motors for continuous-duty applications. Also see our continuous-duty synchronous motors in our SP100FO series.

SPECIAL FEATURES

Fluid only contacts the tubing Self-priming, run dry without damage Pump viscous fluids and slurries Compact size

SPECIFICATIONS

Accuracy: ±5% full scale
Repeatability: ±5% full scale
Max. Fluid Temp.: 93°C (200°F)
Duty Cycle: Intermittent

Operating Temp.: 0 to 50°C (32 to 122°F)

Enclosure: ABS plastic

Wetted parts: Silicone, Norprene® or Viton®
Power: 115 Vac or 230Vac; 23W max.

 Dimensions:
 84 x 140 x 97 mm

 (W x H x D)
 (3.3 x5.5 x 3.8 in.)

 Weight (pump):
 approx 650 g (23 oz)

 Shipping Wt:
 approx 0.9 kg (2 lbs)

Four-roller pump head Reversible Remote Control



Compact, fixed-flow SP100FC pumps with optional remote control.

APPLICATIONS

Chemical metering
Detergent dispensing
Condensate removal
Analytical instruments
Research & Development

SP100FC Flowrates (ml/min)

Motor			Tubing ID (mm)		
RPM_	Watts_	3 <u>.0</u>	1 <u>.6</u>	0 <u>.8</u>	
70	23	13	3.8	1.3	
35	18	7.7	2.1	0.7	
20	15	4	1.1	0.38	
10	15	1.9	0.54	0.18	
5	15	1	0.28	0.09	

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.

SP100FC-Tubing Pumps

NA - Not Available at this time NR - Not Recommended

Control Module Features	F1X	F1R	F2X	F2R	F3R
Manual on/off switch.	•	•	•	•	•
Manual reversible switch (CW/CCW).		•		•	
Remote start/stop (via contact closure).			•	•	•
Remote flow direction change (via contact closure)					•

SP100FC Ordering Information – (Flow rates listed are for Norprene tubing; Silicone is 10-20% higher).

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Flow Tubing		Pump Part No.		Pump Part No.				
	ml/min	<u>ID</u>	RPM Range	Model No.	Norprene [®]	<u>Silicone</u>	<u>Viton</u> ®	
115 Vac and 230 VacPumps - Fixed-flow; optional controls selected from table on top of page. Select power cord at bottom of page.								
Standard Pump Range								
	0.7	0.8 mm (1/32")	35	SP10XX.008.BFXX.S1_	SP101FXX.100	SP100FXX.100	SP102FXX.100	
	1.3	0.8 mm (1/32")	70	SP10XX.008.AFXX.S1_	SP101FXX.101	SP100FXX.101	SP102FXX.101	
	2.1	1.6 mm (1/16")	35	SP10XX.016.BFXX.S1_	SP101FXX.102	SP100FXX.102	SP102FXX.102	
	3.8	1.6 mm (1/16")	70	SP10XX.016.AFXX.S1_	SP101FXX.103	SP100FXX.103	SP102FXX.103	
	7.7	3.0 mm (1/8")	35	SP10XX.030.BFXX.S1_	SP101FXX.104	SP100FXX.104	SP102FXX.104	
	13	3.0 mm (1/8")	70	SP10XX.030.AFXX.S1_	SP101FXX.105	SP100FXX.105	NR	
Low Flow Pump Range								
	0.09	0.8 mm (1/32")	5	SP10XX.008.EFXX.S1_	SP101FXX.106	SP100FXX.106	SP102FXX.106	
	0.18	0.8 mm (1/32")	10	SP10XX.008.DFXX.S1_	SP101FXX.107	SP100FXX.107	SP102FXX.107	
	0.28	1.6 mm (1/16")	5	SP10XX.016.EFXX.S1_	SP101FXX.108	SP100FXX.108	SP102FXX.108	
	0.38	0.8 mm (1/32")	20	SP10XX.008.CFXX.S1_	SP101FXX.109	SP100FXX.109	SP102FXX.109	
	0.54	1.6 mm (1/16")	10	SP10XX.016.DFXX.S1_	SP101FXX.110	SP100FXX.110	SP102FXX.110	
	1	3.0 mm (1/8")	5	SP10XX.030.EFXX.S1_	SP101FXX.111	SP100FXX.111	SP102FXX.111	
	1.1	1.6 mm (1/16")	20	SP10XX.016.CFXX.S1_	SP101FXX.112	SP100FXX.112	SP102FXX.112	
	1.9	3.0 mm (1/8")	10	SP10XX.030.DFXX.S1_	SP101FXX.113	SP100FXX.113	SP102FXX.113	
	4	3.0 mm (1/8")	20	SP10XX.030.CFXX.S1_	SP101FXX.114	SP100FXX.114	SP102FXX.114	
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Flow rates listed are nominal and will vary depending upon fluid viscosity and back pressure.

NR-3 mm ID Viton tubing is not recommended with 70 rpm motor. See SP100FOHD systems for higher torque and flowrates. Other special tubing options are available on special order. Call for details.

VAC power cords

Complete your selection of these compact drives by selecting a power cord for the IEC320 connector. Add the suffix to the p/n to indicate the voltage and include the correct 1.8m (6 ft) power cord.

"U" Power cord, 115Vac, US Std plug.

"E" Power cord, 230Vac, 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.

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