New *SmallPumps™* SP200FC 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 0.2 to 62 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, 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. 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. 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 SP200FO series.

All-plastic pump head
Reversible
Remote Control

Compact, fixed-flow SP200FC pumps with optional remote control.

SPECIAL FEATURES

Fluid only contacts the tubing
Self-priming, run dry without damage
Pump viscous fluids and slurries
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:	±5% full scale	
Repeatability:	±5% full scale	
Max. Fluid Temp.:	93ºC (200ºF)	
Duty Cycle:	Intermittent	
Operating Temp.:	0 to 50ºC (32 to 122ºF)	
Enclosure:	ABS plastic	
Wetted parts:	Silicone, Norprene® or Viton®	
Power:	115 Vac or 230Vac; 200 mA 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)	

SP200FC Flowrates (ml/min)

Motor		Tubing ID (mm)			
RPM	Watts	5.0	3.0	1.6	0.8
70	23	62	38	9.4	2.8
35	18	38	22	5.5	1.6
20	15	21	12	2.8	0.8
10	15	10	6	1.3	0.38
5	15	5.3	3	0.7	0.2

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.

SP200FC-Peri 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).					•

SP200FC Ordering Information – (Flow rates listed are for Norprene tubing; Silicone is 10-20% higher).

Flow Rate ml/min	Tubing ID	RPM Range	Model No.	Pump Part No. Norprene®	Silicone	Viton®
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						
1.6	0.8 mm (1/32")	35	SP20XX.008.BFXX.S1_	**SP201FXX.100**	**SP200FXX.100**	**SP202FXX.100**
2.8	0.8 mm (1/32")	70	SP20XX.008.BFXX.S1_	**SP201FXX.101**	**SP200FXX.101**	**SP202FXX.101**
5.5	1.6 mm (1/16")	35	SP20XX.008.BFXX.S1_	**SP201FXX.102**	**SP200FXX.102**	**SP202FXX.102**
9.4	1.6 mm (1/16")	70	SP20XX.008.BFXX.S1_	**SP201FXX.103**	**SP200FXX.103**	**SP202FXX.103**
22	3.0 mm (1/8")	35	SP20XX.008.BFXX.S1_	**SP201FXX.104**	**SP200FXX.104**	**SP202FXX.104**
38	3.0 mm (1/8")	70	SP20XX.008.BFXX.S1_	**SP201FXX.105**	**SP200FXX.105**	**SP202FXX.105***
38	5.0 mm (3/16")	35	SP20XX.008.BFXX.S1_	**SP201FXX.106**	**SP200FXX.106**	**SP202FXX.106**
62	5.0 mm (3/16")	70	SP20XX.008.BFXX.S1_	**SP201FXX.107***	**SP200FXX.107**	**NR**
Low Flow Pump Range						
0.2	0.8 mm (1/32")	5	SP20XX.008.BFXX.S1_	**SP201FXX.108**	**SP200FXX.108**	**SP202FXX.108**
0.38	0.8 mm (1/32")	10	SP20XX.008.BFXX.S1_	**SP201FXX.109**	**SP200FXX.109**	**SP202FXX.109**
0.7	1.6 mm (1/16")	5	SP20XX.008.BFXX.S1_	**SP201FXX.110**	**SP200FXX.110**	**SP202FXX.110**
0.8	0.8 mm (1/32")	20	SP20XX.008.BFXX.S1_	**SP201FXX.111**	**SP200FXX.111**	**SP202FXX.111**
1.3	1.6 mm (1/16")	10	SP20XX.008.BFXX.S1_	**SP201FXX.112**	**SP200FXX.112**	**SP202FXX.112**
2.8	1.6 mm (1/16")	20	SP20XX.008.BFXX.S1_	**SP201FXX.113**	**SP200FXX.113**	**SP202FXX.113**
3	3.0 mm (1/8")	5	SP20XX.008.BFXX.S1_	**SP201FXX.114**	**SP200FXX.114**	**SP202FXX.114**
5.3	5.0 mm (3/16")	5	SP20XX.008.BFXX.S1_	**SP201FXX.115**	**SP200FXX.115**	**SP202FXX.115**
6	3.0 mm (1/8")	10	SP20XX.008.BFXX.S1_	**SP201FXX.116**	**SP200FXX.116**	**SP202FXX.116**
10	5.0 mm (3/16")	10	SP20XX.008.BFXX.S1_	**SP201FXX.117**	**SP200FXX.117**	**SP202FXX.117**
12	3.0 mm (1/8")	20	SP20XX.008.BFXX.S1_	**SP201FXX.118**	**SP200FXX.118**	**SP202FXX.118**
21	5.0 mm (3/16")	20	SP20XX.008.BFXX.S1_	**SP201FXX.119**	**SP200FXX.119**	**SP202FXX.119**

Flow rates listed are nominal and will vary depending upon fluid viscosity and back pressure.
*3 and 5 mm Viton tubing with 70 rpm motor operates at approx 10% less than ratings. Flow is reduced. See our SP200FOHD pumps for higher torque and flow rates.
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.