

SmallPumps™ SP200FOC Fixed-Flow Cased Pumps

These new low-cost peristaltic pumps are among the smallest fixed-flow pumps in the market. The complete pump is provided in a small, compact housing with on/off switch and power cord. Flow rates are available from 0.11 to 29 ml/min. They adapt easily to almost any instrument application. Ideal for aquarium and other low-flow metering applications. Enjoy the benefits of peristaltic pumps in your fluid transfer application.

Select from 3 different Vac 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.

These all-plastic pumps have SAN plastic housings, acetal rotor assembly with three nylon rollers. The continuous-duty synchronous Vac motors are not reversible. Silicone and Norprene pump systems are supplied with polypropylene fittings. Viton systems are supplied with PVDF fittings. ABS housing. 6-ft power cord with U.S. standard plug (115Vac) or european plug (230Vac). One year warranty.

**All-plastic Pump Head
Continuous-duty
Synchronous Motor**



SPECIAL FEATURES

*Fluid only contacts the tubing
Self-priming, run dry without damage
Fixed-flow 115 and 230Vac motors
Pump viscous fluids and slurries
Compact size*

Custom Cordsets
Available!

*Meter small volumes
of fluid with the
SP201CS.100
peristaltic pump*

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 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:	±5% full scale	
Repeatability:	±5% full scale	
Max. Fluid Temp.:	93°C (200°F)	
Duty Cycle:	Continuous	
Operating Temp.:	0 to 50°C (32 to 122°F)	
Enclosure:	black ABS	
Wetted parts:	Silicone, Norprene® or Viton®	
Power:	100-130Vac; 210-240Vac; 3.5W	
Dimensions (W x H x D):	84 x 140 x 97 mm (3.3 x 5.5 x 3.8 in)	
Weight:	570 g (20 oz.)	
Shipping Wt:	0.9kg (2 lbs)	

APPLICATIONS

*Chemical metering
Detergent dispensing
Salt Water Aquariums
Analytical instruments
Research & Development*

SP200FOC Max Flowrates (ml/min)

Motor	Tubing ID (mm)					
RPM	Vdc	Amps	5.0	3.0	1.6	0.8
30	115 or 230	3.5W	29	15	3.9	1.1
18	115 or 230	3.5W	17.5	9.3	2.3	0.66
3.6	115 or 230	3.5W	3.5	1.8	0.45	0.13

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. 5mm Viton is not recommended for use with the 30 rpm motor. Pumps operating at 50Hz will deliver 5/6 of the flow rate.

SP200FOC-Peri Pumps

NA - Not Available at this time

NR - Not Recommended

SP200FOC Ordering Information – (Flow rates listed are for Norprene tubing; Silicone is 10-20% higher).

Flow ml/min	Tube ID	Motor RPM	Model No.	Norprene®	Pump Part No. Silicone	Viton®
Fixed-flow Pumps; AC synchronous motors; non-reversible; 3.5 W						
115Vac/50-60Hz Pump Systems (60Hz flow rates are shown)						
0.13	0.8 mm (1/32")	3.6	SP20XX.008.RF0S.S1Y	SP201CS.112	SP200CS.112	SP202CS.112
0.45	1.6 mm (1/16")	3.6	SP20XX.016.RF0S.S1Y	SP201CS.114	SP200CS.114	SP202CS.114
0.66	0.8 mm (1/32")	18	SP20XX.008.QF0S.S1Y	SP201CS.116	SP200CS.116	SP202CS.116
1.1	0.8 mm (1/32")	30	SP20XX.008.PF0S.S1Y	SP201CS.118	SP200CS.118	SP202CS.118
1.8	3.0 mm (1/8")	3.6	SP20XX.030.RF0S.S1Y	SP201CS.100	SP200CS.100	SP202CS.100
2.3	1.6 mm (1/16")	18	SP20XX.016.QF0S.S1Y	SP201CS.120	SP200CS.120	SP202CS.120
3.5	5.0 mm (3/16")	3.6	SP20XX.050.RF0S.S1Y	SP201CS.102	SP200CS.102	SP202CS.103
3.9	1.6 mm (1/16")	30	SP20XX.016.PF0S.S1Y	SP201CS.122	SP200CS.122	SP202CS.122
9.3	3.0 mm (1/8")	18	SP20XX.030.QF0S.S1Y	SP201CS.104	SP200CS.104	SP202CS.104
15	3.0 mm (1/8")	30	SP20XX.030.PF0S.S1Y	SP201CS.108	SP200CS.108	SP202CS.108
17.5	5.0 mm (3/16")	18	SP20XX.050.QF0S.S1Y	SP201CS.106	SP200CS.106	SP202CS.106
29	5.0 mm (3/16")	30	SP20XX.050.PF0S.S1Y	SP201CS.110	SP200CS.110	NR
230Vac/50-60Hz Pump Systems (50Hz flow rates are shown)						
0.11	0.8 mm (1/32")	3	SP20XX.008.RF0S.S1Z	SP201CS.113	SP200CS.113	SP202CS.113
0.39	1.6 mm (1/16")	3	SP20XX.016.RF0S.S1Z	SP201CS.115	SP200CS.115	SP202CS.115
0.55	0.8 mm (1/32")	15	SP20XX.008.QF0S.S1Z	SP201CS.117	SP200CS.117	SP202CS.117
0.93	0.8 mm (1/32")	25	SP20XX.008.PF0S.S1Z	SP201CS.119	SP200CS.119	SP202CS.119
1.5	3.0 mm (1/8")	3	SP20XX.030.RF0S.S1Z	SP201CS.101	SP200CS.101	SP202CS.101
1.9	1.6 mm (1/16")	15	SP20XX.016.QF0S.S1Z	SP201CS.121	SP200CS.121	SP202CS.121
2.9	5.0 mm (3/16")	3	SP20XX.050.RF0S.S1Z	SP201CS.103	SP200CS.103	SP202CS.103
3.2	1.6 mm (1/16")	25	SP20XX.016.PF0S.S1Z	SP201CS.123	SP200CS.123	SP202CS.123
7.8	3.0 mm (1/8")	15	SP20XX.030.QF0S.S1Z	SP201CS.105	SP200CS.105	SP202CS.105
13	3.0 mm (1/8")	25	SP20XX.030.PF0S.S1Z	SP201CS.109	SP200CS.109	SP202CS.109
14.5	5.0 mm (3/16")	15	SP20XX.050.QF0S.S1Z	SP201CS.107	SP200CS.107	SP202CS.107
24	5.0 mm (3/16")	25	SP20XX.050.PF0S.S1Z	SP201CS.111	SP200CS.111	NR

Flow rate listed are nominal and will vary depending upon fluid viscosity and back pressure. Pumps operating at 50Hz will deliver 5/6 of the flow rate.

Specifications listed are for Norprene tubing. Silicone flow rates are approx 10-20% higher. Viton slightly lower. 5 mm ID Viton not recommended with 30r pumps.

See SP200FOHD pumps for higher torque and higher flowrates. Other special tubing options are available on special order. Call for details.

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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