

New SmallPumps™ SP200FO Fixed-Flow OEM Pumps

These new low-cost peristaltic pumps are among the smallest fixed-flow pumps in the market. Flow rates are available from 0.11 to 29 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 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. New models available with optional ABS housing, power cords and on/off 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. 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. One year warranty.

**All-plastic pump head
Continuous-duty Vac
synchronous motor**



Transfer small volumes of fluid with the SP200.100 peristaltic pump

Pumps also available with housings!

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*

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:	open motor systems; ABS optional	
Wetted parts:	Silicone, Norprene® or Viton®	
Power:	100-130Vac; 210-240Vac; 3.5W	
Dimensions (W x H x D):	60 x 70 x 66 mm (2.4 x 2.8 x 2.6 in.)	
(with housing)	84 x 140 x 97 mm (3.3 x 5.5 x 3.8 in.)	
Weight:	260 g (9.2 oz); 570 g (20 oz.)	
Shipping Wt:	0.45 kg (1 lbs); 0.9 kg (2 lbs)	

APPLICATIONS

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

SP200FO Max Flowrates (ml/min)

Motor RPM	Vdc	Amps	Tubing ID (mm)			
			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.

SP200FO-Peri Pumps

NA - Not Available at this time

NR - Not Recommended

SP200FO Ordering Information – (Flow rates listed are for Norprene tubing; Silicone is 10-20% higher).

Flow ml/min	Tube ID	Motor RPM	Model No.	Pump Part No.		
				Norprene®	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.RF00.00Y	SP201.112	SP200.112	SP202.112
0.45	1.6 mm (1/16")	3.6	SP20XX.016.RF00.00Y	SP201.114	SP200.114	SP202.114
0.66	0.8 mm (1/32")	18	SP20XX.008.QF00.00Y	SP201.116	SP200.116	SP202.116
1.1	0.8 mm (1/32")	30	SP20XX.008.PF00.00Y	SP201.118	SP200.118	SP202.118
1.8	3.0 mm (1/8")	3.6	SP20XX.030.RF00.00Y	SP201.100	SP200.100	SP202.100
2.3	1.6 mm (1/16")	18	SP20XX.016.QF00.00Y	SP201.120	SP200.120	SP202.120
3.5	5.0 mm (3/16")	3.6	SP20XX.050.RF00.00Y	SP201.102	SP200.102	SP202.103
3.9	1.6 mm (1/16")	30	SP20XX.016.PF00.00Y	SP201.122	SP200.122	SP202.122
9.3	3.0 mm (1/8")	18	SP20XX.030.QF00.00Y	SP201.104	SP200.104	SP202.104
15	3.0 mm (1/8")	30	SP20XX.030.PF00.00Y	SP201.108	SP200.108	SP202.108
17.5	5.0 mm (3/16")	18	SP20XX.050.QF00.00Y	SP201.106	SP200.106	SP202.106
29	5.0 mm (3/16")	30	SP20XX.050.PF00.00Y	SP201.110	SP200.110	NR
230Vac/50-60Hz Pump Systems (50Hz flow rates are shown)						
0.11	0.8 mm (1/32")	3	SP20XX.008.RF00.00Z	SP201.113	SP200.113	SP202.113
0.39	1.6 mm (1/16")	3	SP20XX.016.RF00.00Z	SP201.115	SP200.115	SP202.115
0.55	0.8 mm (1/32")	15	SP20XX.008.QF00.00Z	SP201.117	SP200.117	SP202.117
0.93	0.8 mm (1/32")	25	SP20XX.008.PF00.00Z	SP201.119	SP200.119	SP202.119
1.5	3.0 mm (1/8")	3	SP20XX.030.RF00.00Z	SP201.101	SP200.101	SP202.101
1.9	1.6 mm (1/16")	15	SP20XX.016.QF00.00Z	SP201.121	SP200.121	SP202.121
2.9	5.0 mm (3/16")	3	SP20XX.050.RF00.00Z	SP201.103	SP200.103	SP202.103
3.2	1.6 mm (1/16")	25	SP20XX.016.PF00.00Z	SP201.123	SP200.123	SP202.123
7.8	3.0 mm (1/8")	15	SP20XX.030.QF00.00Z	SP201.105	SP200.105	SP202.105
13	3.0 mm (1/8")	25	SP20XX.030.PF00.00Z	SP201.109	SP200.109	SP202.109
14.5	5.0 mm (3/16")	15	SP20XX.050.QF00.00Z	SP201.107	SP200.107	SP202.107
24	5.0 mm (3/16")	25	SP20XX.050.PF00.00Z	SP201.111	SP200.111	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. Other special tubing options are available on special order. Call for details.

Customize your OEM pumps!

Order your OEM pump with an optional protective ABS plastic housing and power switch. 115Vac models include US Std plug. 230Vac models include European plug.

Add the following letter(s) to the p/n to include the options.

“C” ABS plastic housing (e.g. SP201C.113).

“CS” ABS plastic housing w/on-off switch (e.g. SP201CS.113).

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.

SmallPumps—TM Advanced Product Technology, LLC Viton—Reg TM DuPont Dow Elastomers LLC

Norprene—Reg TM Norton Co. Chemsure—Reg TM W.L. Gore & Assoc, Inc.

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