

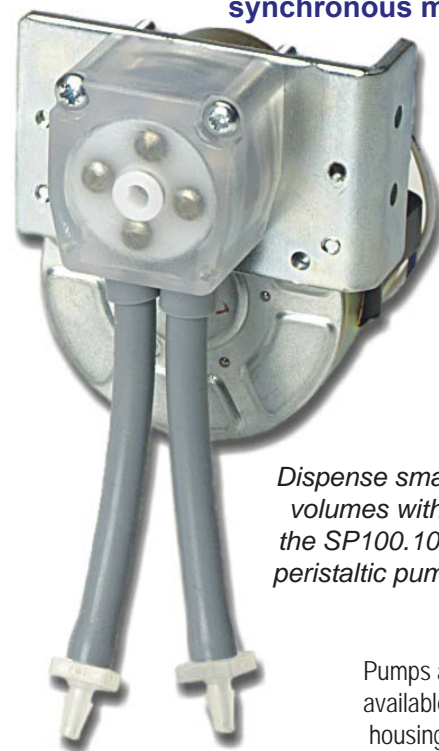
SmallPumps™ SP100FO Fixed-Flow OEM Pumps

These low cost peristaltic pumps are among the smallest fixed-flow pumps in the market. Flow rates are available from 0.05 to 5.6 ml/min. They adapt easily to almost any equipment application. Enjoy the benefits of peristaltic pumps in your fluid transfer application.

Select from 4 different Vac 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 ABS housing, power cords and optional on/off power switch.

All pumpheads have ABS plastic housings, acetal rotor assembly with four stainless steel rollers. These continuous-duty synchronous Vac motors are not reversible. Silicone and Tygon® A60G pump systems are supplied with polypropylene fittings. Viton® systems are supplied with PVDF fittings. One year warranty.

Continuous-duty Vac synchronous motor



Dispense small volumes with the SP100.100 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

	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:	±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, Tygon® A60G 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); 0.9kg (2 lbs)	

APPLICATIONS

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

SP100FO Max Flowrates (ml/min)

Motor RPM	Vdc	Power	Tubing ID (mm)		
			3.0	1.6	0.8
36	115 or 230	3.5W	5.6	1.5	0.5
18	115 or 230	3.5W	3.3	0.9	0.3
8	115 or 230	3.5W	1.5	0.4	0.16
3.6	115 or 230	3.5W	0.65	0.18	0.06

Flow rates 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. Pumps operating at 50Hz will deliver 5/6 of the flow rate.

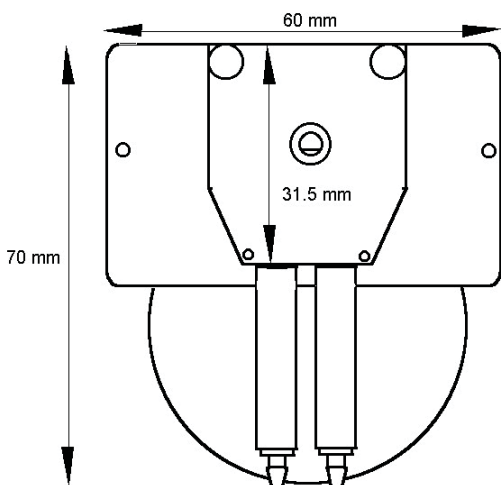
SP100FO-Peri Pumps

NR - Not Recommended

SP100FO Ordering Information – (Flow rates listed are for Tygon® A60G tubing; Silicone is 10-20% higher).

Flow ml/min	Tube ID	Pump RPM	Tygon® A60G	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)					
0.06	0.8 mm (1/32")	3.6	SP101-112	SP100-112	SP102-112
0.16	0.8 mm (1/32")	8	SP101-136	SP100-136	SP102-136
0.18	1.6 mm (1/16")	3.6	SP101-100	SP100-100	SP102-100
0.3	0.8 mm (1/32")	18	SP101-114	SP100-114	SP102-114
0.4	1.6 mm (1/16")	8	SP101-134	SP100-134	SP102-134
0.5	0.8 mm (1/32")	36	SP101-116	SP100-116	SP102-116
0.65	3.0 mm (1/8")	3.6	SP101-102	SP100-102	SP102-102
0.9	1.6 mm (1/16")	18	SP101-104	SP100-104	SP102-104
1.5	1.6 mm (1/16")	36	SP101-106	SP100-106	SP102-106
1.5	3.0 mm (1/8")	8	SP101-126	SP100-126	SP102-126
3.3	3.0 mm (1/8")	18	SP101-108	SP100-108	SP102-108
5.6	3.0 mm (1/8")	36	SP101-110	SP100-110	SP102-110
230Vac/50-60Hz Pump Systems (50Hz flow rates are shown)					
0.05	0.8 mm (1/32")	3	SP101-113	SP100-113	SP102-113
0.16	0.8 mm (1/32")	7	SP101-137	SP100-137	SP102-137
0.16	1.6 mm (1/16")	3	SP101-101	SP100-101	SP102-101
0.25	0.8 mm (1/32")	15	SP101-115	SP100-115	SP102-115
0.35	1.6 mm (1/16")	7	SP101-135	SP100-135	SP102-135
0.4	0.8 mm (1/32")	30	SP101-117	SP100-117	SP102-117
0.55	3.0 mm (1/8")	3	SP101-103	SP100-103	SP102-103
0.78	1.6 mm (1/16")	15	SP101-105	SP100-105	SP102-105
1.3	1.6 mm (1/16")	30	SP101-107	SP100-107	SP102-107
1.3	3.0 mm (1/8")	7	SP101-127	SP100-127	SP102-127
2.3	3.0 mm (1/8")	15	SP101-109	SP100-109	SP102-109
4.6	3.0 mm (1/8")	30	SP101-111	SP100-111	SP102-111

Flow rate listed are nominal and will vary depending upon fluid viscosity and back pressure.
Specifications listed are for Tygon A60G. Silicone flow rates are approx 10-20% higher.
Other special tubing options are available on special order. Call for details.



AC Powered SP100

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 Saint Gobain Performance Plastics Co.
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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. SP101C-113).

“CS” ABS plastic housing w/on-off switch (e.g. SP101CS-113).

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