

SmallPumps™ SP100FOC Fixed-Flow OEM Pumps

These low cost peristaltic pumps are among the smallest fixed-flow pumps in the market. Flow rates are available from 0.06 to 6.6 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. Basic models are enclosed in an ABS housing with a 6-ft power cord. (on/off switch is optional). 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

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*

APPLICATIONS

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

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:	ABS	
Wetted parts:	Silicone, Tygon® A60G 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:	260 g (9.2 oz); 570 g (20 oz.)	
Shipping Wt:	0.45 kg (1 lbs); 0.9kg (2 lbs)	

SP100FOC Max Flowrates (ml/min)

Motor RPM	Vdc	Power	Tubing ID (mm)		
			3.0	1.6	0.8
36	115 or 230	3.5W	6.6	1.8	0.6
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.

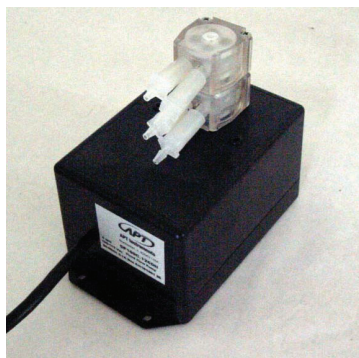
SP100FOC-Peri Pumps

NR - Not Recommended

SP100FOC Ordering Information – (Flow rates listed are for Tygon® A60G tubing; Silicone is 10-20% higher).

Flow ml/min	Tube ID	Pump RPM	Pump Part No.		
			Tygon® A60G	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	SP101C-112	SP100C-112	SP102C-112
0.16	0.8 mm (1/32")	8	SP101C-136	SP100C-136	SP102C-136
0.18	1.6 mm (1/16")	3.6	SP101C-100	SP100C-100	SP102C-100
0.3	0.8 mm (1/32")	18	SP101C-114	SP100C-114	SP102C-114
0.4	1.6 mm (1/16")	8	SP101C-134	SP100C-134	SP102C-134
0.6	0.8 mm (1/32")	36	SP101C-116	SP100C-116	SP102C-116
0.65	3.0 mm (1/8")	3.6	SP101C-102	SP100C-102	SP102C-102
0.9	1.6 mm (1/16")	18	SP101C-104	SP100C-104	SP102C-104
1.5	3.0 mm (1/8")	8	SP101C-126	SP100C-126	SP102C-126
1.8	1.6 mm (1/16")	36	SP101C-106	SP100C-106	SP102C-106
3.3	3.0 mm (1/8")	18	SP101C-108	SP100C-108	SP102C-108
6.6	3.0 mm (1/8")	36	SP101C-110	SP100C-110	SP102C-110
230Vac/50-60Hz Pump Systems (50Hz flow rates are shown)					
0.05	0.8 mm (1/32")	3	SP101C-113	SP100C-113	SP102C-113
0.16	0.8 mm (1/32")	7	SP101C-137	SP100C-137	SP102C-137
0.16	1.6 mm (1/16")	3	SP101C-101	SP100C-101	SP102C-101
0.25	0.8 mm (1/32")	15	SP101C-115	SP100C-115	SP102C-115
0.35	1.6 mm (1/16")	7	SP101C-135	SP100C-135	SP102C-135
0.4	0.8 mm (1/32")	30	SP101C-117	SP100C-117	SP102C-117
0.55	3.0 mm (1/8")	3	SP101C-103	SP100C-103	SP102C-103
0.78	1.6 mm (1/16")	15	SP101C-105	SP100C-105	SP102C-105
1.3	1.6 mm (1/16")	30	SP101C-107	SP100C-107	SP102C-107
1.3	3.0 mm (1/8")	7	SP101C-127	SP100C-127	SP102C-127
2.3	3.0 mm (1/8")	15	SP101C-109	SP100C-109	SP102C-109
4.6	3.0 mm (1/8")	30	SP101C-111	SP100C-111	SP102C-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.



Add an on/off switch!

Add the following letter(s) to the p/n to include the options.
 "CS" ABS plastic housing w/on-off switch (e.g. SP101CS-113).

Multi-channel pump heads!

Select models are designed to handle multiple pumps on one motor. Inquire 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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 Tygon—Reg TM Saint Gobain Performance Plastics Co.
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For more information contact:

APT Instruments
 Omaha, NE 68144 USA
 877.324.5444 Toll-free
 217.498.0342 * 217.498.0352Fx
www.aptinstruments.com
sales@aptinstruments.com