

SmallPumps™ SP300FO OEM Fixed-flow Pumps

These rugged peristaltic pumps are among the most cost-effective fixed-flow pumps in the market. Flow rates are available from 30 to 1000 ml/min. They adapt easily to almost any fluid transfer application. Enjoy the benefits of these easy tubing change peristaltic pumps in your fluid transfer application.

Select from 3 different motor speeds, three 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.

These peristaltic pumps have plastic housings, a steel rotor assembly with two ball-bearing rollers. The continuous-duty shaded-pole Vac motors are not reversible. Thermal overload protected. Silicone and Tygon® A60G pump systems are supplied with ABS fittings. Viton® systems are supplied with PVDF fittings. One year warranty.

**Easy tubing change pump head
Continuous-duty motor**



Pumps also available with housings!

Transfer fluids up to 1000 ml/min with the SP300 pumps!

SPECIAL FEATURES

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

SPECIFICATIONS

	Norprene, Viton	Silicone
Max. Fluid Pressure:		
3.0 & 5.0 mm ID	30 psig (2 bar)	10 psig (0.7 bar)
6.4 mm ID	15 psig (1.4 bar)	8 psig (0.5 bar)
Max. Suction Lift:		
3.0 & 5.0 mm ID	25-ft (7.5 m) H ₂ O	25-ft (7.5 m) H ₂ O
6.4 mm ID	20-ft (6 m) H ₂ O	15-ft (4.5 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, thermal overload	
Operating Temp.:	0 to 50°C (32 to 122°F)	
Enclosure:	open motor systems, optional PVC	
Wetted parts:	Silicone, Tygon® or Viton®	
Power:	100-130Vac; 210-240Vac;	
Dimensions:	75 x 90 x 130 mm	
(W x H x D)	(3 x 3.5 x 5.2 in.)	
Weight (pump):	approx 1.4 kg (48 oz)	

APPLICATIONS

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

SP300FO Max Flowrates (ml/min)

Motor RPM	Tubing ID (mm)				
	Vac	Watts	6.4	5.0	3.0
300	115 or 230	200W	1000	600	300
60	115 or 230	75W	200	120	60
30	115 or 230	60W	100	60	30

Flow rate listed are nominal and will vary depending upon fluid viscosity, suction lift 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. Startup current is 3-5X rating listed.

SP300FO-Tubing Pumps

NA - Not Available at this time

NR- Not Recommended

SP300FO 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; Vac shaded pole; non-reversible; continuous-duty; thermal overload protection.					
115Vac/50-60Hz Pump Systems (60Hz flow rates and motor rpms are shown)					
30	3.0 mm (1/8")	30	SP301-110	SP300-110	SP302-110
60	5.0 mm (3/16")	30	SP301-100	SP300-100	SP302-100
60	3.0 mm (1/8")	60	SP301-112	SP300-112	SP302-112
100	6.4 mm (1/4")	30	SP301-116	SP300-116	SP302-116
120	5.0 mm (3/16")	60	SP301-102	SP300-102	SP302-102
200	6.4 mm (1/4")	60	SP301-120	SP300-120	SP302-120
300	3.0 mm (1/8")	300	SP301-122	SP300-122	SP302-122
600	5.0 mm (3/16")	300	SP301-108	SP300-108	SP302-108
1000	6.4 mm (1/4")	300	SP301-128	SP300-128	SP302-128
230Vac/50-60Hz Pump Systems (50Hz flow rates and motor rpms are shown)					
25	3.0 mm (1/8")	25	SP301-111	SP300-111	SP302-111
50	5.0 mm (3/16")	25	SP301-101	SP300-101	SP302-101
50	3.0 mm (1/8")	50	SP301-113	SP300-113	SP302-113
83	6.4 mm (1/4")	25	SP301-117	SP300-117	SP302-117
100	5.0 mm (3/16")	50	SP301-103	SP300-103	SP302-103
166	6.4 mm (1/4")	50	SP301-121	SP300-121	SP302-121
250	3.0 mm (1/8")	250	SP301-123	SP300-123	SP302-123
500	5.0 mm (3/16")	250	SP301-109	SP300-109	SP302-109
825	6.4 mm (1/4")	250	SP301-129	SP300-129	SP302-129

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.

Customize your OEM pumps!

Order your OEM pump with an optional protective ABS plastic housing and power switch. All cased and switched models include a 6-ft power cord and plug.

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

"C" ABS plastic housing (e.g. SP301C-100).

"CS" ABS plastic housing w/ on-off switch (e.g. SP301CS-100).



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.

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