

SmallPumps™ SP300 Cased Fixed-flow Pumps

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

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® A60F pump systems are supplied with ABS fittings. Viton® systems are supplied with PVDF fittings. Provided with 6-ft power cord. One year warranty.



SP301CS-110 with on/off switch

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*

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

APPLICATIONS

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

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®A60G or Viton®	
Power:	100-130Vac; 210-240Vac;	
Dimensions:	153 x 153 x 178 mm	
(W x H x D)	(6 x 6 x 7 in.)	

SP300FOC Max Flowrates (ml/min)

Motor RPM	Vac	Watts	Tubing ID (mm)		
			6.4	5.0	3.0
300	115 or 230	200W	1000 (15.8gph)	600 (9.5gph)	300 (4.8gph)
60	115 or 230	75W	200 (3.2gph)	120 (1.9gph)	60 (0.95gph)
30	115 or 230	60W	100 (1.6gph)	60 (0.95gph)	30 (0.48gph)

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.

SP300FOC-Tubing Pumps

NA - Not Available at this time
NR- Not Recommended

SP300FOC 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	SP301C-110	SP300C-110	SP302C-110
60	5.0 mm (3/16")	30	SP301C-100	SP300C-100	SP302C-100
60	3.0 mm (1/8")	60	SP301C-112	SP300C-112	SP302C-112
100	6.4 mm (1/4")	30	SP301C-116	SP300C-116	SP302C-116
120	5.0 mm (3/16")	60	SP301C-102	SP300C-102	SP302C-102
200	6.4 mm (1/4")	60	SP301C-120	SP300C-120	SP302C-120
300	3.0 mm (1/8")	300	SP301C-122	SP300C-122	SP302C-122
600	5.0 mm (3/16")	300	SP301C-108	SP300C-108	SP302C-108
1000	6.4 mm (1/4")	300	SP301C-128	SP300C-128	SP302C-128
230Vac/50-60Hz Pump Systems (50Hz flow rates and motor rpms are shown)					
25	3.0 mm (1/8")	25	SP301C-111	SP300C-111	SP302C-111
50	5.0 mm (3/16")	25	SP301C-101	SP300C-101	SP302C-101
50	3.0 mm (1/8")	50	SP301C-113	SP300C-113	SP302C-113
83	6.4 mm (1/4")	25	SP301C-117	SP300C-117	SP302C-117
100	5.0 mm (3/16")	50	SP301C-103	SP300C-103	SP302C-103
166	6.4 mm (1/4")	50	SP301C-121	SP300C-121	SP302C-121
250	3.0 mm (1/8")	250	SP301C-123	SP300C-123	SP302C-123
500	5.0 mm (3/16")	250	SP301C-109	SP300C-109	SP302C-109
825	6.4 mm (1/4")	250	SP301C-129	SP300C-129	SP302C-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.

Specifications listed are for Tygon A60G tubing. Silicone flow rates are approx 10-20% higher. Viton slightly lower.

Other special tubing options are available on special order. Call for details.

Customize your cased pump!

Add the following letter to your p/n to include the options.

"CS" Housing with on-off switch (e.g. SP301CS-129)

Note: Pump models available

-without switches

-with custom power cords!

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 Corp.

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For more information contact:

APT Instruments

Omaha, NE 68144USA

877.324.5444 Toll-free

217.498.0342 * 217.498.0352Fx

www.aptinstruments.com

sales@aptinstruments.com