

New SmallPumps™ SP400iVO Peristaltic Pumps

These new compact peristaltic pumps provide variable flow and exceptional pump performance in a small attractive package. Flow rates are available up to 8.8 liters per minute (LPM). Select the model with the flow and voltage that you require. Integrate these pumps into your system for dependable fluid transfer.

Select from different motor speeds 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 efficient pumps have anodized aluminum housings, stainless steel rotor assembly with two sealed roller-bearing acetal rollers. The SP400iVO pumps are reversible. Silicone and A60G pump systems are supplied with PP fittings. One year warranty.

Installation Note: These pumps are rated for continuous-duty. For long-term applications - Request information on our brushless dc motors.

**Variable-flow
Reversible**



SP400iVO pumps with fast change pump head.

SPECIAL FEATURES

- Fluid only contacts the tubing*
- Self-priming, run dry without damage*
- Variable-flow Vdc motors*
- Pump viscous fluids and slurries*
- Compact size*

APPLICATIONS

- Chemical metering*
- Manufacturing*
- Condensate removal*
- Maintenance*
- Printing*

SPECIFICATIONS

	Tygon A60G, Viton	Silicone
Max. Fluid Pressure:	20 psig (1.4 bar)	10 psig (0.7 bar)
Max. Suction Lift:	16-ft (5 m) H ₂ O	10-ft (3 m) H ₂ O
Flow Range:	See ordering table (page 2)	
Accuracy:	±5% full scale	
Repeatability:	±5% full scale	
Remote Control:	optional, varies by model see table	
Max. Fluid Temp.:	93°C (200°F)	
Duty Cycle:	Continuous	
Operating Temp.:	0 to 50°C (32 to 122°F)	
Pumphead:	Anodized Alum, SS, Acetal roller	
Wetted parts:	Silicone, A60G or Viton®	
Power:	12 or 24Vdc	
Dimensions: (W x H x D)	220 x 160 x 150 mm (8.7 x 6.3 x 6 in.)	
Weight (pump):	approx 3.2 kg (7 lbs)	
Shipping Wt:	approx 4.1 kg (9 lbs)	

SP400iVO Max Flowrates (LPM)

RPM	Motor		Tubing ID (mm)	
	Vdc	Amps	13	10
240	24	5A	8.8	4.8
200	12	10 A	7.4	4
120*	12	3 A	4.4	2.4
60	12	1.5 A	2.2	1.2

Flow rate 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 slightly higher. Viton flow rates slightly lower. *Inquire for special motor rpms.

SP400iVO-Tubing Pumps

NA - Not Available at this time
NR - Not Recommended

SP400iVO Ordering Information – (Flow rates listed are for Tygon A60G tubing; Silicone is slightly higher).

Flow Rate LPM	Tubing ID	RPM Range	Tygon® A60G	Pump Part No.	
				Silicone	Viton®
12Vdc Pumps - Variable-flow					
0 to 7.4	13 mm (1/2")	0 to 200	SP401i.006	SP400i.006	SP402i.006
0 to 4.0	10 mm (3/8")	0 to 200	SP401i.005	SP400i.005	SP402i.005
0 to 2.2	13 mm (1/2")	0 to 60	SP401i.002	SP400i.002	SP402i.002
0 to 1.2	10 mm (3/8")	0 to 60	SP401i.001	SP400i.001	SP402i.001
24Vdc Pumps - Variable-flow					
0 to 8.8	13 mm (1/2")	0 to 240	SP401i.072	SP400i.072	SP402i.072
0 to 4.8	10 mm (3/8")	0 to 240	SP401i.071	SP400i.071	SP402i.071

Flow rate listed are nominal and will vary depending upon fluid viscosity and back pressure.
Other special tubing options are available on special order. Call 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, Norprene—Reg TM Saint-Gobain Performance Plastics Corp.
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