

# New SmallPumps™ SP400VOA 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. Norprene® 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 SP400VOA pumps are reversible. Silicone and Norprene 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**



SP400VOA 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*

## SPECIFICATIONS

	Norprene, Viton	Silicone
Max. Fluid Pressure:	20 psig (1.4 bar)	10 psig (0.7 bar)
Max. Suction Lift:	16-ft (5 m) H <sub>2</sub> O	10-ft (3 m) H <sub>2</sub> 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, Norprene® or Viton®	
Power:	12 or 24Vdc	
Dimensions:	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)	

## APPLICATIONS

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

## SP400VOA Max Flowrates (LPM)

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

Flow rate listed are nominal and will vary depending upon fluid viscosity and back pressure. Specifications listed are for Norprene tubing. Silicone flow rates are slightly higher. Viton flow rates slightly lower. \*Inquire for special motor rpms.

# SP400VOA-Tubing Pumps

NA - Not Available at this time  
NR - Not Recommended

## SP400VOA Ordering Information – (Flow rates listed are for Norprene tubing; Silicone is slightly higher).

Flow Rate LPM	Tubing ID	RPM Range	Pump Part No.		
			Norprene®	Silicone	Viton®
<b>12Vdc Pumps - Variable-flow</b>					
0 to 7.4	13 mm (1/2")	0 to 200	SP401.006A	SP400.006A	SP402.006A
0 to 4.0	10 mm (3/8")	0 to 200	SP401.005A	SP400.005A	SP402.005A
0 to 2.2	13 mm (1/2")	0 to 60	SP401.002A	SP400.002A	SP402.002A
0 to 1.2	10 mm (3/8")	0 to 60	SP401.001A	SP400.001A	SP402.001A
<b>24Vdc Pumps - Variable-flow</b>					
0 to 8.8	13 mm (1/2")	0 to 240	SP401.072A	SP400.072A	SP402.072A
0 to 4.8	10 mm (3/8")	0 to 240	SP401.071A	SP400.071A	SP402.071A

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.*

SmallPumps—TM Advanced Product Technology, LLC Viton—Reg TM DuPont Dow Elastomers LLC  
Norprene—Reg TM Saint-Gobain Performance Plastics Corp.  
©Copyright 2012-16 Advanced Product Technology, LLC.

**For more information contact:**

**APT Instruments**

**Omaha, NE 68144 USA**

**877.324.5444 (Toll-Free)**

**217.498.0342 \* 217.498.0352Fx**

**sales@aptinstruments.com**