

## New SmallPumps™ SP200FOC Fixed-Flow OEM

These new low cost peristaltic pumps are among the smallest fixed-flow pumps in the market. Flow rates are available from 0.13 to 36 ml/min. They adapt easily to almost any instrument application. Enjoy the benefits of peristaltic pumps in your fluid transfer application.

Select from 4 different Vac motor speeds, four 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 on/off power switch.

These all-plastic pumps have SAN plastic housings, acetal rotor assembly with three nylon rollers standard. Optional systems with 2, 4 and 6-rollers are available. The continuous-duty synchronous Vac motors are not reversible. Silicone and Tygon pump systems are supplied with polypropylene fittings. Viton systems are supplied with PVDF fittings. One year warranty.

**All-plastic pump head  
Continuous-duty Vac  
synchronous motor**



Pumps also available without housings!

*Transfer small volumes of fluid with the SP200C.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*

### SPECIFICATIONS

|                                | Tygon A60G                            | Silicone                              |
|--------------------------------|---------------------------------------|---------------------------------------|
| <b>Max. Fluid Pressure:</b>    | 30 psig (2 bar)                       | 10 psig (0.7 bar)                     |
| <b>Max. Suction Lift:</b>      |                                       |                                       |
| 0.8 and 1.6 mm ID              | 16-ft (4.8 m) H <sub>2</sub> O        | 16-ft (4.8 m) H <sub>2</sub> O        |
| 3.0 and 5.0 mm ID              | 25-ft (7.5 m) H <sub>2</sub> O        | 25-ft (7.5 m) H <sub>2</sub> O        |
| <b>Flow Range:</b>             | See ordering table (page 2)           |                                       |
| <b>Accuracy:</b>               | ±5% full scale                        |                                       |
| <b>Repeatability:</b>          | ±5% full scale                        |                                       |
| <b>Max. Fluid Temp.:</b>       | 93°C (200°F)                          |                                       |
| <b>Duty Cycle:</b>             | Continuous                            |                                       |
| <b>Operating Temp.:</b>        | 0 to 50°C (32 to 122°F)               |                                       |
| <b>Enclosure:</b>              | open motor systems; ABS optional      |                                       |
| <b>Wetted parts:</b>           | Silicone, Tygon® or Viton®            |                                       |
| <b>Power:</b>                  | 100-130Vac; 210-240Vac; 3.5W          |                                       |
| <b>Dimensions (W x H x D):</b> | 60 x 70 x 66 mm (2.4 x 2.8 x 2.6 in.) | 84 x 140 x 97 mm (3.3 x 5.5 x 3.8 in) |
| <b>Weight:</b>                 | 260 g (9.2 oz); 570 g (20 oz.)        |                                       |
| <b>Shipping Wt:</b>            | 0.45 kg (1 lbs); 0.9kg (2 lbs)        |                                       |

### APPLICATIONS

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

### SP200FO Max Flowrates (ml/min)

| Motor<br>RPM | Vdc        | Amps | Tubing ID (mm) |      |      |      |
|--------------|------------|------|----------------|------|------|------|
|              |            |      | 5.0            | 3.0  | 1.6  | 0.8  |
| 36           | 115 or 230 | 3.5W | 36             | 18.6 | 4.6  | 1.3  |
| 18           | 115 or 230 | 3.5W | 18             | 9.3  | 2.3  | 0.66 |
| 8            | 115 or 230 | 3.5W | 8              | 4    | 1    | 0.30 |
| 3.6          | 115 or 230 | 3.5W | 3.6            | 1.8  | 0.45 | 0.13 |

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 approx 10-20% higher. 5mm Viton is not recommended for use with the 36 rpm motor. Pumps operating at 50Hz will deliver 5/6 of the flow rate.

# SP200FOC-Peri Pumps

NA - Not Available at this time

NR - Not Recommended

## SP200FOC Ordering Information – (Flow rates listed are for Tygon A60 tubing; Silicone is 10-20% higher).

| Flow<br>ml/min  | Tube<br>ID     | Pump<br>RPM | Model No.           | Pump Part No. |            |            |
|---|----------------|-------------|---------------------|---------------|------------|------------|
|   |                |             |                     | Tygon®A60G    | Silicone   | Viton®     |
| <b>Fixed-flow Pumps; AC synchronous motors; non-reversible; 3.5 W</b> |                |             |                     |               |            |            |
| <b>115Vac/50-60Hz Pump Systems (60Hz flow rates are shown)</b>        |                |             |                     |               |            |            |
| 0.13  | 0.8 mm (1/32") | 3.6         | SP20XX.008.RF00.00Y | SP201C.112    | SP200C.112 | SP202C.112 |
| 0.45  | 1.6 mm (1/16") | 3.6         | SP20XX.016.RF00.00Y | SP201C.114    | SP200C.114 | SP202C.114 |
| 0.66  | 0.8 mm (1/32") | 18          | SP20XX.008.QF00.00Y | SP201C.116    | SP200C.116 | SP202C.116 |
| 1.1   | 0.8 mm (1/32") | 36          | SP20XX.008.PF00.00Y | SP201C.118    | SP200C.118 | SP202C.118 |
| 1.8   | 3.0 mm (1/8")  | 3.6         | SP20XX.030.RF00.00Y | SP201C.100    | SP200C.100 | SP202C.100 |
| 2.3   | 1.6 mm (1/16") | 18          | SP20XX.016.QF00.00Y | SP201C.120    | SP200C.120 | SP202C.120 |
| 3.5   | 5.0 mm (3/16") | 3.6         | SP20XX.050.RF00.00Y | SP201C.102    | SP200C.102 | SP202C.103 |
| 3.9   | 1.6 mm (1/16") | 36          | SP20XX.016.PF00.00Y | SP201C.122    | SP200C.122 | SP202C.122 |
| 9.3   | 3.0 mm (1/8")  | 18          | SP20XX.030.QF00.00Y | SP201C.104    | SP200C.104 | SP202C.104 |
| 15  | 3.0 mm (1/8")  | 36          | SP20XX.030.PF00.00Y | SP201C.108    | SP200C.108 | SP202C.108 |
| 17.5  | 5.0 mm (3/16") | 18          | SP20XX.050.QF00.00Y | SP201C.106    | SP200C.106 | SP202C.106 |
| 36  | 5.0 mm (3/16") | 36          | SP20XX.050.PF00.00Y | SP201C.110    | SP200C.110 | SP202C.110 |
| <b>230Vac/50-60Hz Pump Systems (50Hz flow rates are shown)</b>        |                |             |                     |               |            |            |
| 0.11  | 0.8 mm (1/32") | 3           | SP20XX.008.RF00.00Z | SP201C.113    | SP200C.113 | SP202C.113 |
| 0.39  | 1.6 mm (1/16") | 3           | SP20XX.016.RF00.00Z | SP201C.115    | SP200C.115 | SP202C.115 |
| 0.55  | 0.8 mm (1/32") | 15          | SP20XX.008.QF00.00Z | SP201C.117    | SP200C.117 | SP202C.117 |
| 0.93  | 0.8 mm (1/32") | 25          | SP20XX.008.PF00.00Z | SP201C.119    | SP200C.119 | SP202C.119 |
| 1.5   | 3.0 mm (1/8")  | 3           | SP20XX.030.RF00.00Z | SP201C.101    | SP200C.101 | SP202C.101 |
| 1.9   | 1.6 mm (1/16") | 15          | SP20XX.016.QF00.00Z | SP201C.121    | SP200C.121 | SP202C.121 |
| 2.9   | 5.0 mm (3/16") | 3           | SP20XX.050.RF00.00Z | SP201C.103    | SP200C.103 | SP202C.103 |
| 3.2   | 1.6 mm (1/16") | 25          | SP20XX.016.PF00.00Z | SP201C.123    | SP200C.123 | SP202C.123 |
| 7.8   | 3.0 mm (1/8")  | 15          | SP20XX.030.QF00.00Z | SP201C.105    | SP200C.105 | SP202C.105 |
| 13  | 3.0 mm (1/8")  | 25          | SP20XX.030.PF00.00Z | SP201C.109    | SP200C.109 | SP202C.109 |
| 14.5  | 5.0 mm (3/16") | 15          | SP20XX.050.QF00.00Z | SP201C.107    | SP200C.107 | SP202C.107 |
| 24  | 5.0 mm (3/16") | 25          | SP20XX.050.PF00.00Z | SP201C.111    | SP200C.111 | NR         |

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 A-60-G tubing. Silicone flow rates are approx 10-20% higher. Viton slightly lower.

### Customize your OEM pumps!

Order your OEM pump with an optional protective ABS plastic housing and power switch. 115Vac models include US Std plug. 230Vac models include European plug.

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

“C” ABS plastic housing (e.g. SP201C.113).

“CS” ABS plastic housing w/on-off switch (e.g. SP201CS.113).

### For more information contact:

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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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