Max. working pressure:........100 psig (6.9 bar)
Max. fluid temperature:........130°F (54°C)
Max. ambient temperature:........14°F to 110°F/ -10°C to 43°C
Output adjustment range:........5-100%
Duty cycle:.............................Continuous
Maximum viscosity:..............5,000 Centipoise
Maximum suction lift:...........30 ft. Water 0 psig
Maximum Solids:..................50% by volume
Enclosure:.............................NEMA 3R, (IP23)
Approximate shipping wt:.....10 lb. (4.5 kg)

Features:
- Peristaltic pump design does not have valves that can clog requiring maintenance.
- Self priming - even against maximum line pressure. By-pass valves are not required. Cannot vapor lock or lose prime.
- Outputs to 250 ml/min (95.1 GPD).
- Output pressures to 100 PSI.
- Output volume is not affected by changes in back pressure.
- Patented pump tube design installs easily and stays centered on the rollers without manual adjustment.
- Two pump tubes supplied with each pump. No extra tubing required.
- Easy to use dial knob output control.
- 20:1 turndown ratio.
- Adjustable 60 second repeating interval timer. 3-60 second adjustable on time per 60 second cycle.
- Built-in Tube Failure Detection system (TFD). Senses chemical in the pump head, shuts off the pump and activates an NPN open collector output.
- Compatible with Blue-White’s output flow verification sensor system.
- Durable housing of chemical resistant Valox (PBT) thermoplastic.

Specifications:
Max. working pressure:........100 psig (6.9 bar)
Max. fluid temperature:........130°F (54°C)
Max. ambient temperature:........14°F to 110°F/ -10°C to 43°C
Output adjustment range:........5-100%
Duty cycle:.............................Continuous
Maximum viscosity:..............5,000 Centipoise
Maximum suction lift:...........30 ft. Water 0 psig
Maximum Solids:..................50% by volume
Enclosure:.............................NEMA 3R, (IP23)
Approximate shipping wt:.....10 lb. (4.5 kg)
Voltage (max amp):.............115VAC/60Hz, 14 & 30 rpm = 1.37 amp
........................................45 & 60 rpm = 1.87 amp
........................................230VAC/60Hz, 14 & 30 rpm = 0.64 amp
........................................45 & 60 rpm = 0.74 amp
........................................220VAC/50Hz, 14 & 30 rpm = 0.68 amp
........................................45 & 60 rpm = 1.14 amp
........................................240VAC/50Hz, 14 & 30 rpm = 0.66 amp
........................................45 & 60 rpm = 1.04 amp
Power Cord Plug Type:........115V60Hz = NEMA 5/15 (USA)
........................................230V60Hz = NEMA 6/15 (USA)
........................................220V50Hz = CEE 7/VII (EUROPE)
........................................240V50Hz = CEE 7/VII (U.K)

Materials of Construction:
Wetted components:
Pump Tube Assembly:..........Flex-A-Prene®, Flex-A-Thane® or FKM tubing
PVDF tube assembly connection fittings
Suction Tubing:...............Clear PVC
Suction Strainer:.............Natural Polypropylene
Discharge Tubing:..............Natural Polyethylene (LLDPE)
Injection/Check valve:
Body & insert:............Polypropylene (optional PVDF)
Check Ball:.......................Ceramic
Spring:........................Hastelloy C-276
Ball Seat O-ring:............TFE/P (optional EP)
Static Seal O-ring:.........FKM (optional EP)
Non-Wetted components:
Pump Head & Enclosure:........Valox® (PBT) thermoplastic
Pump Head Cover:...............Clear Acrylic
Cover Screws:.................300 Stainless, Polypropylene cap
Roller Assembly:
Rotor:.............................Valox® (PBT)
Rollers:.............................Nylon
Roller Bearings:..............Bronze
Motor Shaft:.....................Nickel plated steel
TFD System Sensor pins:.....Hastelloy C-276
Power Cord:......................3 conductor, SJTW-A Water-resistant
**Model Number Matrix:**

**MODEL A1N**

<table>
<thead>
<tr>
<th>Maximum Motor RPM</th>
<th>MODEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 = 14 RPM</td>
<td>A1N</td>
</tr>
<tr>
<td>1 = 30 RPM</td>
<td></td>
</tr>
<tr>
<td>2 = 45 RPM</td>
<td></td>
</tr>
<tr>
<td>3 = 60 RPM</td>
<td></td>
</tr>
</tbody>
</table>

**Power Supply**

| 0 = 115V/60Hz     |       |
| 1 = 220V/50Hz     |       |
| 2 = 230V/60Hz     |       |
| 8 = 240V/50Hz AS 3112 (Australia/New Zealand) | |
| 9 = 230V/50Hz BS 1363 (UK) | |

**Output Control**

| A = Analog timer, 60 sec. Cycle - 100% duty |       |
| C = Analog timer, 5 sec. Cycle - 100% duty |       |
| S = Analog timer, 60 sec. Cycle - 10% duty |       |
| V = Digital speed control with external input |       |
| F = Analog speed control |       |
| E = Digital batch timer with external input |       |
| Z = Proportional feed system - JBox/Cord |       |
| X = No output control - fixed feed rate |       |

**Pump Tube Size and Material**

| 1 = 1/4" OD Flex-A-Thane® |       |
| 2 = 3/8" OD Flex-A-Thane® |       |
| 3 = 7/16" OD Flex-A-Thane® |       |
| 4 = 1/4" OD Flex-A-Prene® |       |
| 5 = 5/16" OD FKM |       |
| 6 = 3/8" OD Flex-A-Prene® |       |
| 7 = 7/16" OD Flex-A-Prene® |       |
| 8 = 7/16" OD Flex-A-Chem® |       |

**Gallons shown are U.S. Gallons**

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**Maximum Flow Rate and Pressure Capacities:**

**Replacement Pump Tubes:**

<table>
<thead>
<tr>
<th>Pump Model Number Suffix</th>
<th>Pump Tube Part Number</th>
<th>Pump Tube Material</th>
<th>Nominal Pump Tube OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1-1T</td>
<td>Flex-A-Thane®</td>
<td>1/4&quot; (6.4mm)</td>
<td></td>
</tr>
<tr>
<td>A1-2T</td>
<td>Flex-A-Thane®</td>
<td>3/8&quot; (9.5mm)</td>
<td></td>
</tr>
<tr>
<td>A1-3T</td>
<td>Flex-A-Thane®</td>
<td>7/16&quot; (11.1mm)</td>
<td></td>
</tr>
<tr>
<td>A1-4T</td>
<td>Flex-A-Prene®</td>
<td>1/4&quot; (6.4mm)</td>
<td></td>
</tr>
<tr>
<td>A1-5T</td>
<td>FKM</td>
<td>5/16&quot; (7.9mm)</td>
<td></td>
</tr>
<tr>
<td>A1-6T</td>
<td>Flex-A-Prene®</td>
<td>3/8&quot; (9.5mm)</td>
<td></td>
</tr>
<tr>
<td>A1-7T</td>
<td>Flex-A-Prene®</td>
<td>7/16&quot; (11.1mm)</td>
<td></td>
</tr>
<tr>
<td>A1-8T</td>
<td>Flex-A-Chem®</td>
<td>7/16&quot; (11.1mm)</td>
<td></td>
</tr>
</tbody>
</table>

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**Dimensions:**

Base Mounting

- .200 Dia.
- 4 places
- 7.625”
- 3.500”
- 7.375”
- 200 Dia.
- 2 places
- 8.187”

Rear Panel Mounting

- .200 Dia.
- 7.935”
- 9.125”
- 6.000”