A-100NX
Fixed Speed
No Output Control

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 effected 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.
- No Output control.
- 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° to 110°F / -10° to 43°C
- Output adjustment range: Not adjustable
- 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:
  - 115V/60Hz = NEMA 5/15 (USA)
  - 230V/60Hz = NEMA 6/15 (USA)
  - 220V/50Hz = CEE 7/VI (EUROPE)
  - 240V/50Hz = 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
### Dimensions:

- **Base Mounting:**
  - .200 Dia.
  - 4 places
  - 7.625”
  - 3.500”
  - 7.375”

- **Rear Panel Mounting:**
  - .200 Dia.
  - 2 places
  - 8.187”

### Model Number Matrix:

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

### Miscellaneous Options (not required):

- 1 = T440-6V injector replaces A-014N-6A
- 2 = C-340V footvalve replaces C-342-6 strainer
- 5 = A-014NK-6A injector PVD
- 6 = Jumper set for digital square wave input

### Power Supply:

- 0 = 115V60Hz
- 1 = 220V50Hz
- 2 = 230V60Hz
- 8 = 240V50Hz AS 3112 (Australia/New Zealand)
- 9 = 230V50Hz BS 1363 (UK)

### Output Control:

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

### Pump Tube Size and Material:

- 1 = 7/16” 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

### Maximum Flow rate and pressure capacities:

<table>
<thead>
<tr>
<th>Tube no.</th>
<th>Tubing Material</th>
<th>14 RPM MODELS</th>
<th>30 RPM MODELS</th>
<th>45 RPM MODELS</th>
<th>60 RPM MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ml/m oz/m lph gph PSI(bar)</td>
<td>ml/m oz/m lph gph PSI(bar)</td>
<td>ml/m oz/m lph gph PSI(bar)</td>
<td>ml/m oz/m lph gph PSI(bar)</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Flex-A-Thane</td>
<td>15 0.51 0.90 0.24 65(4.5)</td>
<td>35 1.18 2.10 0.55 65(4.5)</td>
<td>54 1.83 3.24 0.86 65(4.5)</td>
<td>67 2.26 4.02 1.06 65(4.5)</td>
</tr>
<tr>
<td>2</td>
<td>Flex-A-Thane</td>
<td>32 1.08 1.92 0.51 65(4.5)</td>
<td>75 2.54 5.50 1.19 65(4.5)</td>
<td>115 3.89 6.90 1.82 65(4.5)</td>
<td>140 4.73 8.40 2.22 65(4.5)</td>
</tr>
<tr>
<td>3</td>
<td>Flex-A-Thane</td>
<td>73 2.47 1.56 1.16 50(3.5)</td>
<td>173 5.86 10.38 2.74 50(3.5)</td>
<td>261 8.82 15.66 4.14 50(3.5)</td>
<td>326 11.01 19.56 5.17 50(3.5)</td>
</tr>
<tr>
<td>4</td>
<td>Flex-A-Prene</td>
<td>6 0.20 0.38 0.10 100(6.5)</td>
<td>11 0.44 0.78 0.21 100(6.5)</td>
<td>21 0.71 1.26 0.33 100(6.5)</td>
<td>25 0.88 1.50 0.40 75(5.2)</td>
</tr>
<tr>
<td>5</td>
<td>FKM</td>
<td>11 0.37 0.66 0.17 25(1.7)</td>
<td>26 0.88 1.56 0.41 25(1.7)</td>
<td>36 1.31 2.34 0.62 25(1.7)</td>
<td>45 1.62 2.88 0.76 25(1.7)</td>
</tr>
<tr>
<td>6</td>
<td>Flex-A-Prene</td>
<td>18 0.61 1.08 0.29 100(6.5)</td>
<td>42 1.42 2.52 0.67 100(6.5)</td>
<td>63 2.13 3.78 1.00 100(6.5)</td>
<td>79 2.67 4.74 1.25 75(5.2)</td>
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<tr>
<td>7</td>
<td>Flex-A-Prene</td>
<td>57 1.92 3.42 0.90 50(3.5)</td>
<td>138 4.66 8.28 2.19 50(3.5)</td>
<td>200 6.76 12.00 3.17 50(3.5)</td>
<td>250 8.45 15.00 3.96 50(3.5)</td>
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<tr>
<td>8</td>
<td>Flex-A-Chem</td>
<td>40 1.35 2.40 0.63 50(3.5)</td>
<td>84 2.30 5.04 1.31 50(3.5)</td>
<td>140 4.73 8.40 2.22 50(3.5)</td>
<td>180 6.10 10.80 2.85 50(3.5)</td>
</tr>
</tbody>
</table>

### 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>-1T</td>
<td>A1-T1</td>
<td>Flex-A-Thane</td>
<td>1/4” (6.4mm)</td>
</tr>
<tr>
<td>-2T</td>
<td>A1-T2</td>
<td>Flex-A-Thane</td>
<td>3/8” (9.5mm)</td>
</tr>
<tr>
<td>-3T</td>
<td>A1-T3</td>
<td>Flex-A-Thane</td>
<td>7/16” (11.1mm)</td>
</tr>
<tr>
<td>-4T</td>
<td>A1-T4</td>
<td>Flex-A-Prene</td>
<td>1/4” (6.4mm)</td>
</tr>
<tr>
<td>-5T</td>
<td>A1-T5</td>
<td>FKM</td>
<td>5/16” (7.9mm)</td>
</tr>
<tr>
<td>-6T</td>
<td>A1-T6</td>
<td>Flex-A-Prene</td>
<td>3/8” (9.5mm)</td>
</tr>
<tr>
<td>-7T</td>
<td>A1-T7</td>
<td>Flex-A-Prene</td>
<td>7/16” (11.1mm)</td>
</tr>
<tr>
<td>-8T</td>
<td>A1-T8</td>
<td>Flex-A-Chem</td>
<td>7/16” (11.1mm)</td>
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</tbody>
</table>

Gallons shown are U.S. Gallons.