A-100NFP

Variable Speed
Dial Knob Control
Enhanced Tube Failure Detection
Oil and Water Based Polymers

Summary:
Two pump tubes supplied with each pump. No extra tubing required.
Easy to use dial knob speed adjustment.
Built-in Tube Failure Detection Plus 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.

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 5.17 GPH (19.56 LPH).
- Output pressures to 65 PSI (4.5 bar).
- 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.

Specifications:
Max. working pressure: ........65 psig (4.5 bar)
Max. fluid temperature: .............130° F (54° C)
Max. ambient temperature: ........14° to 110° F / -10° to 43° C
Output adjustment range: ..........10-100% in 1% increments
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)

Materials of Construction:
Wetted components:
Pump Tube Assembly: ........Flex-A-Thane®
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**
  - .20" Dia. 5mm 4 places
  - 7.625" 194mm
  - 3.500" 89mm
  - 7.375" 187mm

- **Rear Panel Mounting**
  - .20" Dia. 5mm 4 places
  - 8.187" 208mm
  - 9.375" 238mm
  - 3.125" 232mm
  - 6.000" 152mm

**Model Number Matrix:**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Feed Rate</th>
<th>RPM</th>
<th>Pump Tube OD</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1N0°F-1T-P</td>
<td>1.5 - 15 ML/min</td>
<td>14</td>
<td>A1-1T</td>
</tr>
<tr>
<td>A1N1°F-1T-P</td>
<td>3.5 - 35 ML/min</td>
<td>30</td>
<td>A1-1T</td>
</tr>
<tr>
<td>A1N3°F-1T-P</td>
<td>6.7 - 67 ML/min</td>
<td>60</td>
<td>A1-1T</td>
</tr>
<tr>
<td>A1N3°F-2T-P</td>
<td>14.0 - 140 ML/min</td>
<td>60</td>
<td>A1-2T</td>
</tr>
<tr>
<td>A1N2°F-3T-P</td>
<td>26.1 - 261 ML/min</td>
<td>45</td>
<td>A1-3T</td>
</tr>
<tr>
<td>A1N3°F-3T-P</td>
<td>32.6 - 326 ML/min</td>
<td>60</td>
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</table>

**Miscellaneous Options (not required):**
1. T40-6V injector replaces A-014N-6A
2. C-340V footvalve replaces C-3426-6 strainer
3. A-014NK-6A injector PVDF
4. Jumper set for digital square wave input
5. 7 gallon chemical tank system
6. 15 gallon chemical tank system
7. 30 gallon chemical tank system
8. Polymer Pump equipped with TFD+

**Tubing Connection Type:**
- T = Compression tube nuts

**Output Control:**
- V = Digital speed control with external input
- F = Analog speed control

**Maximum Flow rate and pressure capacities:**

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<th>Model Number</th>
<th>Feed Rate</th>
<th>RPM</th>
<th>Max PSI (BAR)</th>
<th>Pump Tube Part Number</th>
<th>Pump Tube Material</th>
<th>Nominal Pump Tube OD</th>
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