**A-100NS**

*Fixed Speed*

**Dial Knob Control**

*60 second Spa cycle timer with 6 second maximum run time per cycle*

### 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 25 ml/min (9.5 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.
- Outputs as low as 1/3 second per minute.
- Adjustable 60 second repeating interval timer. 0.3 - 6.0 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.
- 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:** 0.5-10%
- **Duty cycle:** 6 seconds per minute max
- **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)

### Materials of Construction:

**Wetted components:**
- **Pump Tube Assembly:** Flex-A-Prene®, Flex-A-Thane® or FKM tubing
- **Suction Tubing:** Clear PVC
- **Suction Strainer:** Natural Polypropylene
- **Discharge Tubing:** Natural Polyethylene (LLDPE)
- **Injection/Check valve:** Polypropylene (optional PVDF);
  - Body & insert:
  - Check Ball:
  - Spring: Hastelloy C-276
  - Ball Seat O-ring: TFE/P (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

### 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 7/7 (EUROPE)
- 240V50Hz = CEE 7/7 (UK)