

A-100NV Series Pumps

Digital Peristaltic Pumps for Chemical Metering



Description

The A-100NV Series Peristaltic Pumps are loaded with features that make them the ideal choice for a variety of water, wastewater, and industrial chemical metering applications. The pumps can easily handle higher viscosity liquids up to 5,000 cps, as well as liquids with up to a 50% solids content.

Low Maintenance Design

The A-100NV's low maintenance peristaltic pump is designed to be naturally clog resistant and self priming— even against the maximum rated line pressure. The pump also cannot vapor lock or lose prime, so no bypass system is required. Built to last, each A-100NV pump is housed in a weatherproof NEMA 2 housing and has a continuous duty motor with advanced cooling to ensure a long service life.

User Friendly Touch Pad and Display

The A-100NV has a user friendly touch pad and a bright LCD display, which make the pump easy to operate. The pump has service and alarm indicator icons, motor speed or input signal values, and a prime mode for quick priming without program changes.

Pump Control and Alarm Relays

The pump's precise, variable speed feed rate may be externally controlled by a 4-20 mA or pulse/frequency signal from a flowmeter, PLC, or process control device.

The A-100NV pumps include Blue-White's exclusive Tube Failure Detection system (TFD), which senses chemical in the pump head and shuts off the pump, and activates an alarm relay (dry contact closure). The pumps are also compatible with the Flow Verification Sensor system, which can shut down the pump and alert you if the chemical stops flowing for any reason.

What's in the Box

The A-100NV pumps ship with 2 pump tubes, 10 ft (3 m) of suction and discharge tubing, a suction strainer/foot valve with a ceramic weight, and an injection/check valve assembly.

Specifications

Max. Working Pressure	100 psig (6.9 bar)
Max. Fluid Temperature	130°F (54°C)
Max. Ambient Temperature	14 to 115°F (-10 to 46.1°C)
Output Adjustment Range	5 to 100% in 1% increments
Duty Cycle	Continuous
Maximum Viscosity	5,000 Centipoise
Maximum Suction Lift	30' water, 0 psig
Maximum Solids	50% by volume
Enclosure	NEMA type 2, (IP21)
Shipping Weight (Approx.)	12 lbs (5.4 kg)
Dimensions	6-1/4 x 10 x 9-1/4" (158.7 x 254 x 235mm)

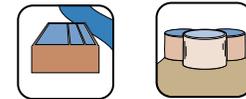
Materials

Pump Head & Enclosure	Valox (PBT) thermoplastic
Pump Head Cover	Clear PVC
Cover Screws	300 stainless steel w/polypropylene cap
Roller Assembly	Rotor: Valox (PBT) Rollers: Nylon Roller Bearings: Bronze Motor Shaft: Nickel plated steel
TFD System Sensor Pins	Hastelloy C-276
Pump Tubing	Norprene
Tube Connection Fittings	PVDF
Suction Tubing	Clear PVC
Suction Strainer	Natural Polypropylene
Discharge Tubing	Natural Polyethylene (LLDPE)
Injection/Check Valve Assembly	Body & insert: Polypropylene (optional PVDF) Check Ball: Ceramic Spring: Hastelloy C-276 Ball Seat O-ring: TFE/P Static Seal O-ring: Viton

Features

- Low maintenance peristaltic design
- Handles liquids with higher viscosities and solids content
- Precise variable speed control
- Automatically detects a tube failure and disables pump

Applications



Ideal for a variety of water, wastewater, and industrial chemical metering applications.

Ordering & Options

115 VAC/60Hz A100NV Digital Peristaltic Pumps

Order No.	Max GPD ¹	Max PSI ²	Tube OD
A1N10V-4T	4.9	100	1/4"
A1N20V-4T	8.0	100	1/4"
A1N10V-6T	16.0	100	3/8"
A1N20V-6T	24.0	100	3/8"
A1N10V-7T	52.5	50	7/16"
A1N30V-7T	95.1	50	7/16"

220 VAC/50Hz A100NV Digital Peristaltic Pumps

Order No.	Max ¹ m ³ /min	Max BAR ²	Tube OD
A1N11V-4T	4.9	100	1/4"
A1N21V-4T	8.0	100	1/4"
A1N11V-6T	16.0	100	3/8"
A1N21V-6T	24.0	100	3/8"
A1N11V-7T	52.5	50	7/16"
A1N31V-7T	95.1	50	7/16"

1) Maximum liquid output at zero backpressure.

2) Maximum pressure output.

Replacement Pump Tubes

Order No.	Pump Suffix	Tube OD
A-002N-4T	-4T	1/4"
A-002N-6T	-6T	3/8"
A-002N-7T	-7T	7/16"

Replacement Parts

Order No.	Description
A-014N-6A	Injection/Check Valve Assembly
C-340A	Strainer/Foot Valve Assembly



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