

# FLEXFLO<sup>®</sup>



## MODEL A-100NV

Variable Speed  
Peristaltic Injector Pump  
Operating Manual

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### 1.0 Introduction

Congratulations on purchasing the A-100NV variable speed Peristaltic Metering Pump. The A-100NV is designed to inject chemicals into piping systems. The pump has been tested by NSF International for use with 12 ½% Sodium Hypochlorite. The A-100NV is equipped with external input control circuitry which allows the pumps output to be externally controlled by either a 4-20mA input signal, a 0-10V DC input signal or a pulsed frequency input signal.

# A-100NV

## 2.0 Specifications

<b>Maximum Working Pressure</b>	100 psig / 6.9 bar (most models)
<b>Maximum Fluid Temperature</b>	130° F / 54° C
<b>Ambient Temperature Range</b>	14 to 110° F / -10 to 43° C
<b>Duty Cycle</b>	Continuous
<b>Adjustment Range</b>	5-100% of speed
<b>Maximum Solids</b>	50% by volume
<b>Maximum Viscosity</b>	5,000 Centipoise
<b>Maximum Suction Lift</b>	up to 30 ft. water
<b>Power Requirements</b>	108/130Vac 60Hz 40 Watts, 208/250Vac 40Hz 40 Watts, 208/250Vac 60Hz 45 Watts
<b>Dimensions</b>	6-1/8" H x 10-1/8" W x 9" D
<b>Weight</b>	12 lb.

## 3.0 Features

- Peristaltic Pump Tube does not require valves.
- Self priming under maximum pressure. Cannot vapor lock.
- High outlet pressure capability of 100 psig (most models).
- High inlet suction lift capability of 30 feet.
- Patented Tube Failure Detection (TFD) system.
- Patented pump tube assembly design.
- Includes Flow Verification System (FVS) - sensor sold separately.
- 1 amp alarm relay (dry contact).
- Alarm and Service alert icon displays.
- Corrosion proof Valox housing.
- Tamper resistant electronic control panel cover.

## 4.0 Unpacking

Your pump package should contain the following:

- 1 - Injector pump with 2 pump tube assemblies
- 1 - suction tube strainer
- 1 - ceramic tubing weight
- 1 - 5' Length of clear PVC suction tubing
- 1 - 5' Length of opaque LLDPE discharge tubing
- 1 - Injection fitting with internal back-flow check valve
- 1 - Mounting hardware kit
- 1 - Shroud (weather proof cover see page 16)

## 5.0 Installation

**CAUTION: Proper eye and skin protection must be worn when installing and servicing the pump.**

*Note: All diagrams are strictly for guideline purposes only. Always consult an expert before installing the pump into specialized systems. The pump should be serviced by qualified persons only.*

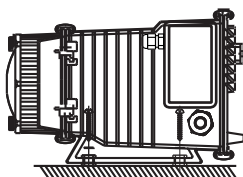
### 5.1 Mounting Location

Choose an area located near the chemical supply tank, chemical injection point and electrical supply. Although the pump is designed to withstand outdoor conditions, a cool, dry, well ventilated location is recommended. Install the pump where it can be easily serviced.

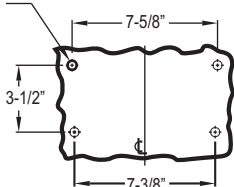
- Mount the pump to a secure surface or wall using the enclosed hardware. Wall mount to a solid surface only. Mounting to drywall with anchors is not recommended.
- Mount the pump close to the injection point. Keep the outlet (discharge) tubing as short as possible. Longer tubing increases the back pressure at the pump tube.
- Your solution tank should be sturdy. Keep the tank covered to reduce fumes. Do not mount the pump directly over your tank. Chemical fumes may damage the unit. Mount the pump off to the side or at a lower level than the chemical container.
- Mounting the pump lower than the chemical container will gravity feed the chemical into the pump. This “flooded suction” installation will reduce output error due to increased suction lift. You must install a shut-off valve, pinch clamp or other means to halt the gravity feed to the pump during servicing.
- Be sure your installation does not constitute a cross connection with the drinking water supply. Check your local plumbing codes.

#### INJECTOR MOUNTING

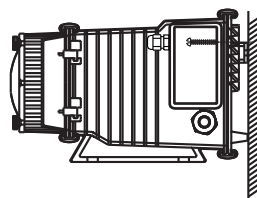
**Floor Mount**



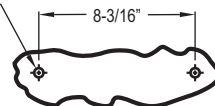
Drill .156 Dia. (5/32)  
For Self-Tap Screw  
#10 X 1" Phillips Steel  
4 Places



**Wall Mount**



Drill .156 Dia. (5/32)  
For Self-Tap Screw  
#10 X 1" Phillips Steel  
2 Places



*Note: For wall-mounting, drill & thread into solid wood only.*











































