

### FLEXFLO<sup>®</sup> A2A

Specially designed for pools, spas,  
and water parks

Feed rates to 15.9 GPH (60.2 LPH)

Pressures to 50 PSI

100:1 turndown ratio

Tube Failure Detection (TFD) system

Variable speed brushed DC motor

2 -year warranty



Certified to  
NSF/ANSI Standard 50

Exclusive:

**NEMA 4X**



Patents: 4,496,295, 7,001,153, 7,284,964 and other patents pending

#### Features:

- Peristaltic pump design does not have valves that can clog requiring maintenance.
- Self priming - even against maximum line pressure. Bypass valves are not required. Cannot vapor lock or lose prime.
- Output rates to: 15.9 GPH (60.2 LPH) and pressures up to 50 PSI (3.4 Bar).
- Variable speed brushed DC motor.
- Patented Tube Failure Detection (TFD) system. Senses tube failure by detecting chemical in the pump head. No false triggering.
- Remote Start/Stop: Non-powered dry contact closure for remote start/stop.
- Outputs include: one 250V/3A relay to monitor TFD (Tube Failure System) and FVS (Flow Verification System).
- Two PVDF molded squeeze rollers and two alignment rollers for optimum squeeze, unparalleled accuracy, and tube life.
- Heavy duty rotor - single piece plastic rotor means no flexing and increased accuracy with no metal springs or hinges to corrode.
- Chemically resistant tubing capable of pumping bleach (sodium hypochlorite), calcium hypochlorite 20%, and muriatic acid (hydrochloric acid).

# FLEXFLO<sup>®</sup> Peristaltic Metering Pump

## Engineering and Technical Data

### Engineering Specifications:

**Maximum Working Pressure (Excluding pump tubes):**

50 psig (3.4 bar)

**NOTE:** See the individual pump tube assembly maximum pressure ratings.

**Maximum Suction Lift:**

30 ft. of water at sea level (14.7 atm psi)

**Ambient Operating Temperature:**

14°F to 125°F (-10°C to 52°C)

**Ambient Storage Temperature:**

-40°F to 158°F (-40°C to 70°C)

**Operating Voltage:**

115VAC 50/60Hz, 1ph (1.5 Amp Maximum)

230VAC 50/60Hz, 1ph (0.7 Amp Maximum)

220VAC 50/60Hz, 1ph (1.0 Amp Maximum)

240VAC 50/60Hz, 1ph (1.0 Amp Maximum)

**Power Cord Options:**

115V50/60Hz = NEMA 5/15 (USA)

230V50/60Hz = NEMA 6/15 (USA)

220V50/60Hz = CEE 7/VII (EU)

240V50/60Hz = AS 3112 (Australia/New Zealand)

**Motor:**

Brushed DC, 1/8 H.P.

**Duty Cycle:**

Continuous

**Motor Speed Adjustment Range 100:1:**

1.0% - 100% motor speed (1.3 to 130 RPM)

**Enclosure:**

NEMA 4X (IP66), Polyester powder coated aluminum.

**Maximum Overall Dimensions:**

7-1/2" W x 10-1/4" H x 14" D (19 W x 26 H x 35.6 D cm)

**Product Weight:**

28.4 lb. (12.9 Kg)

**Approximate Shipping Weight:**

35 lb. (15.9 Kg)

### Materials of Construction:

**Wetted Components:****Pump Tube Assembly:**

Tubing:.....Flex-A-Prene<sup>®</sup>

Adapter Fittings: PVDF

**NOTE:** This is model specific, and two are provided.

**Injection / Back-Flow Check Valve:**

Body & Insert: . . . . . PVDF

Check Ball: . . . . . Ceramic

Spring: . . . . . Hastelloy C-276

Ball Seat O-Ring: . . . . . FKM (optional EPDM)

Static Seal O-Ring: . . . . . FKM (optional EPDM)

**Ancillary Items Provided:**

Suction Tubing: . . . . . 3/8" OD x 1/4" ID x 10' Clear PVC

Discharge Tubing: . . . . . 3/8" OD x 1/4" ID x 10' Polyethylene (LLDPE)

Suction Strainer: . . . . . PVDF

**Suction Strainer:**

Body:.....PVDF

Check Ball: .....Ceramic

Ball Seat O-Ring:.....TFE/P (Optional EPDM)

**With "M" Tubing M/NPT Connections Only:****Suction Strainer:**

Body:.....PVDF

Check Ball: .....Ceramic

Ball Seat O-Ring:.....TFE/P (Optional EPDM)

**Non-Wetted Components:****Enclosure:**

413 Aluminum (Polyester powder coated)

**Pump Head:**

Valox<sup>®</sup>(PBT) thermoplastic

**Pump Head Cover:**

Polycarbonate for added strength and chemical resistance.

Permanently lubricated sealed motor shaft support ball bearing.

**Cover Screws:**

Stainless steel

**Roller Assembly:**

Rotor:.....Valox<sup>®</sup>(PBT)

Rollers: .....PVDF

Roller Bearings: .....SS Ball Bearings

**Motor Shaft:**

Chrome plated steel

**TFD System Sensor Pins:**

Hastelloy C-276

**Power Cord:**

3 conductor, SJTW-A water-resistant

**Tube Installation Tool:**

GF nylon

**Mounting Brackets and Hardware:**

316 stainless steel

# FLEXFLO<sup>®</sup> Peristaltic Metering Pump

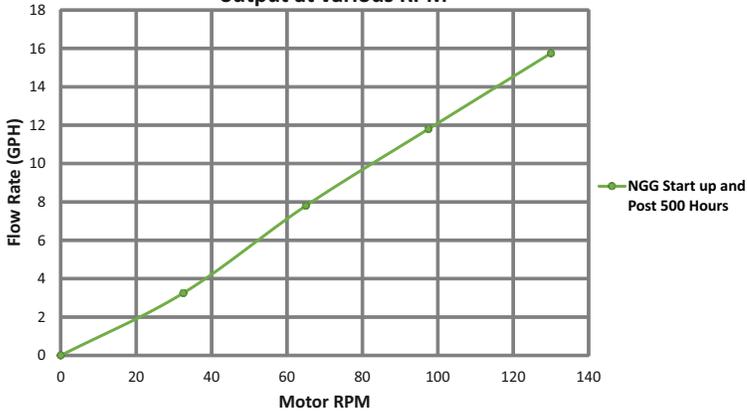
## Engineering and Technical Data

### Output Specifications:

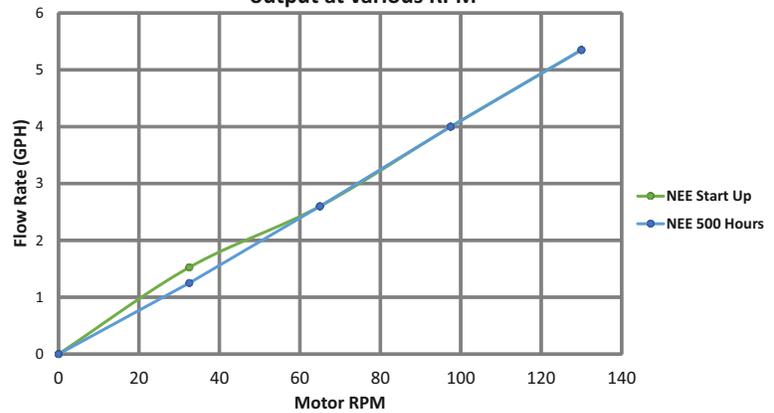
Feed Rate			Max Speed	Max Pressure	Max Temperature	A2A Model Numbers		
<b>Flex-A-Prene<sup>®</sup> A2A Tube Pumps</b>								
Meets FDA criteria for food   Excellent chemical resistance   CIP   SIP								
GPH	LPH	ML/Min	RPM	PSI (bar)	F (C)	115V AC	230V AC	220V AC
.055 - 5.5	.208 - 20.8	3.47 - 347	130	50 (3.4)	185 (85)	A2A24-SNEE	A2A25-SNEE	A2A26-SNEE
.159 - 15.9	.602 - 60.2	10.03 - 1003	130	40 (2.8)	185 (85)	A2A24-SNGG	A2A25-SNGG	A2A26-SNGG

**NOTE:** For optimum tube life, specify the pump to operate at the lowest possible RPM and pressure.

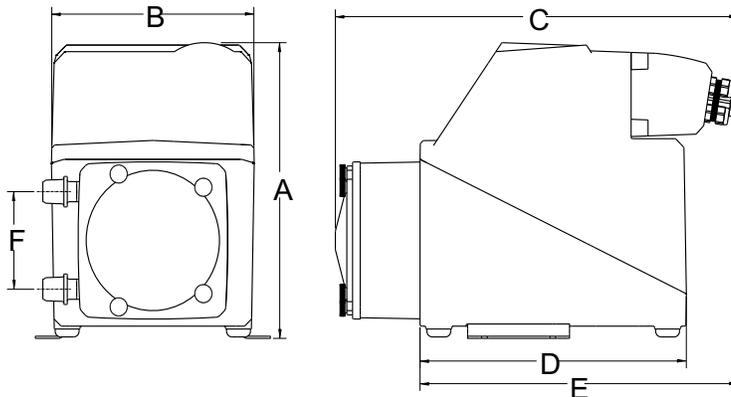
**A2A NGG**  
output at various RPM



**A2A NEE**  
output at various RPM



### Dimensions:



Dim	A2A Series	
	Inches	cm
A	10-1/4"	26
B	7-1/2"	19
C	14"	35.6
D	9-1/2"	24.1
E	11"	27.9
F	3-3/8"	8.6

# FLEXFLO<sup>®</sup> Peristaltic Metering Pump

## Engineering and Technical Data

### Model Number Matrix:

FlexFlo <sup>®</sup> Model Number	
<b>A2A</b>	FlexFlo <sup>®</sup> Peristaltic Metering Pump
<b>Maximum Motor Speed</b>	
<b>2</b>	130 RPM (Maximum rotor rotation speed)
<b>Power Cord (Operating voltage requirement 96VAC to 264VAC)</b>	
<b>4</b>	115V 50/60Hz, power cord NEMA 5/15 plug (US)
<b>5</b>	230V 50/60Hz, power cord NEMA 6/15 plug (US)
<b>6</b>	220V 50/60Hz, power cord CEE 7/V11 plug (EU)
<b>8</b>	240V 50/60Hz, power cord AS 3112 plug (Australia/New Zealand)
<b>9</b>	230V 50/60Hz, power cord BS 1363/A plug (United Kingdom)
<b>X</b>	No Power Cord
<b>Pump Tube Material, Pump Tube Size, Operating Flow Range</b>	
<b>NEE</b>	Flex-A-Prene <sup>®</sup> .093 ID, 0.055 to 5.5 GPH
<b>NGG</b>	Flex-A-Prene <sup>®</sup> .187 ID, 0.16 to 15.9 GPH

<b>A2A</b>	<b>2</b>	<b>4</b>	<b>-</b>	<b>S</b>	<b>NGG</b>	<b>Sample Model Number</b>
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