

A-100N Polymer

FLEXFLO® Peristaltic Metering Pump



Features

- Smooth and accurate peristaltic feed of polymers.
- Self-priming - even against maximum line pressure.
- Does not have valves that can clog requiring maintenance.
- Output volume is not effected by changes in back pressure.
- Variable Speed Motor with up to 20:1 Turndown.
- V Model: 4-20ma Input, 0-10VDC Input, Pulse Input
- Built-In Tube Failure Detection (TFD+) system senses tube failure

Video link:



Highlights

Flow range

.01 - 5.17 GPH
.04 - 19.56 LPH

Pressures

up to 65 PSI*
(4.5 bar)

Turndown ratio

10 : 1 / 20 :1
(model specific)

Max. suction lift

30 ft. Water 0 psig

Motor

Variable Speed DC

Warranty

1 Year

*Consult factory for proper tube choice based on actual system pressure

Control Methods

	Manual Control	4-20ma Input	0-10 VDC Input	Pulse Input	FVS Input ¹	TFD / FVS Alarm Output	Motor Active Output
A-100NFP	Dial Knob				•	Open Collector	Open Collector
A-100NVP	Digital	•	•	•	•	Contact Closure	Open Collector

1. Requires flow sensor - sold separately



Max. Working Pressure	up to 65 psig (4.5 bar) (see specific tube ratings below)
Max. Fluid Temperature	130° F (54° C)
Max. Ambient Temperature	14 to 110° F/ -10 to 43° C
Max. Viscosity	5,000 Centipoise
Max. Suction Lift	30 ft. Water at sea level (14.7 atm psi)
Operating Voltage	115VAC/60Hz, 1ph (14 & 30 RPM = 1.37 Amp Max.) (45 & 60 RPM = 1.87 Amp Max.) 220VAC/50Hz, 1ph (14 & 30 RPM = 0.68 Amp Max.) (45 & 60 RPM = 1.14 Amp Max.)
Power Cord Options	115V 50/60Hz = NEMA 5/15 (USA) 220V 50/60Hz = NEMA 6/15 (EU)
Motor	Variable Speed DC
Duty Cycle	Continuous
Flow Adjustment Range	0.01 - 95.1 GPD (0.6 - 250 mL/min)
Output Adjustment Range	10% – 100% motor speed (5% -100% on certain models*)
Solids	50% by volume
Programmable Input (V Model Only)	4-20 mA, 0-10 VDC, Pulse/Frequency
TFD+ (Tube Failure Detection)	Built-in sensor. Will stop pump and activate alarm output. 6-30vdc collector voltage. 50mA max sinking current.
FVS (Flow Verification System)	Compatible with optional pulse flow sensor. Will stop pump and activate alarm output. 6-30vdc collector voltage. 50mA max sinking current. Contact factory for sensor options.
Motor Active	Motor active - open collector output. 6-30vdc collector voltage. 50mA max sinking current.
Enclosure	NEMA 3R, IP23, Valox PBT
Product Weight	8 lb. (3.63 Kg)
Approximate shipping wt	10 lb. (4.5 Kg)
RoHS Compliant	Yes
Standards	CE, cETLus

* 14 RPM & 30 RPM Models with 1 and 2 tubes have 20:1 turndown.

Output Specifications

Maximum Flow Rates

Tube	Max Pres- sure PSI (bar)	14 RPM MODELS					30 RPM MODELS					45 RPM MODELS					60 RPM MODELS				
		GPD	GPH	OZ/MIN	ML/MIN	LPH	GPD	GPH	OZ/MIN	ML/MIN	LPH	GPD	GPH	OZ/MIN	ML/MIN	LPH	GPD	GPH	OZ/MIN	ML/MIN	LPH
1	65(4.5)	5.7	0.24	0.51	15	0.90	13.3	0.55	1.18	35	2.1	20.5	0.86	1.83	54	3.24	25.5	1.06	2.26	67	4.02
2	65(4.5)	12.2	0.51	1.08	32	1.92	28.5	1.19	2.54	75	4.5	43.6	1.82	3.89	115	6.90	53.3	2.22	4.73	140	8.40
3	50(3.5)	27.8	1.16	2.47	73	4.37	65.8	2.74	5.85	173	10.38	99.2	4.14	8.82	261	15.66	124	5.17	11.01	326	19.56

Materials of Construction

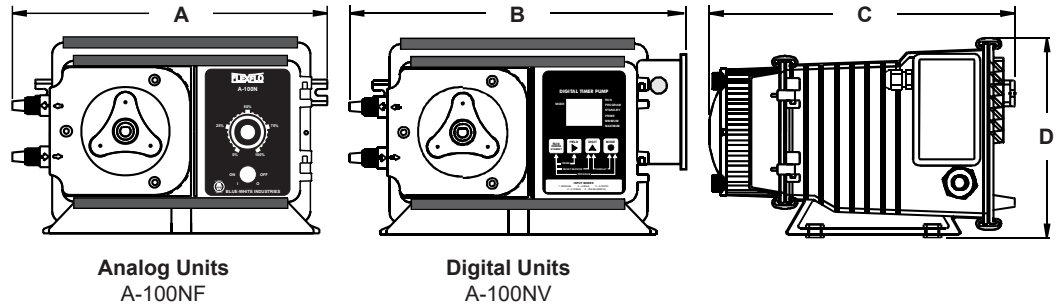
Non-wetted Components:	
Enclosure:	Valox® (PBT) thermoplastic
Pump Head:	Valox® (PBT) thermoplastic
Pump Head Cover:	Clear Acrylic Permanently lubricated sealed motor shaft support bronze sleeve bearing.
Cover Screws:	Stainless steel, polypropylene cap
Roller Assembly:	Rotor: Valox® (PBT) Rollers: Nylon Roller Bearings: Bronze
TFD+ System Sensor:	Polysulfone (PES)
Power Cord:	3 Conductor, SJTW-A water-resistant
Hardware:	Stainless Steel
Shroud:	Valox® (PBT) thermoplastic

Wetted Components:	
Pump Tube Assembly*:	Tubing: Flex-A-Thane® Adapter Fittings: PVDF (1/4" x 3/8" tube connection)
Injection / Back-Flow Check Valve:	Body & Insert: Polypropylene Check Ball: Ceramic Spring: Hastelloy C-276 Ball Seat O-Ring: TFE/P Static Seal O-Ring: FKM
Ancillary Items Provided:	Suction Tubing: 3/8" OD x 1/4" ID x 5' Clear PVC Discharge Tubing: 3/8" OD x 1/4" ID x 5' Polyethylene (LLDPE) Suction Strainer: Polypropylene Weight: Ceramic

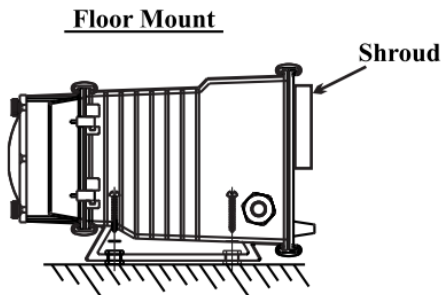
* One spare tube provide with pump.

Dimensions

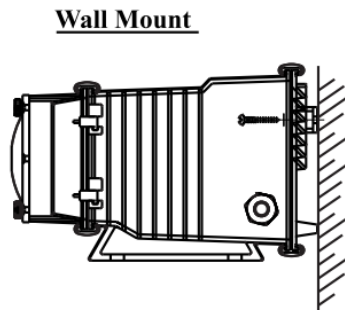
Dim	Inch	cm
A	9.375"	23.81
B	9.50"	24.10
C	9.125"	23.18
D	6.00"	15.24



Shroud / Weather Proof



Weather proof



Weather proof


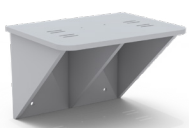




Model Number Matrix

A100NP

FLEXFLO® Model Number

A1N	FLEXFLO® Peristaltic Metering Pump								
Maximum Motor RPM									
0	14 RPM								
1	30 RPM								
2	45 RPM								
3	60 RPM								
Power Cord									
0	115V / 60HZ, power cord NEMA 5/15 plug (US)								
1	220V / 50HZ, power cord CEE7/VII plug (EU)								
Input/Output Control									
F	Analog Manual Speed Control (Dial Knob)								
V	Digital Speed Control with external input (4-20ma, 0-10VDC, and Frequency/Pulse)								
Pump Tube Material, Pump Tube Size									
1	1/4" OD Flex-A-Thane®, 65 PSI								
2	3/8" OD Flex-A-Thane®, 65 PSI								
3	7/16" OD Flex-A-Thane®, 50 PSI								
Polymer Pump Model									
P	Polymer Pump equipped with TFD+								
A1N	0	0	F	-	1	T	-	P	Sample Model Number

Accessories

 <p>KIT-S07 KIT-S15 KIT-S30</p> <p>* Includes cover and foot valve</p> <p>KIT-S07 (7 Gallon), KIT-S15 (15 Gallon), KIT-S30 (30 Gallon) STAR III TANKS, PP</p>	 <p>KIT-PSM WALL MOUNT BRACKET, HDPE</p>	 <p>A1-1T, A1-2T, A1-3T Spare Tube Element</p>
 <p>T140-6V T.I. INJECTOR, 3/8"</p>	 <p>C-340A FOOT VALVE</p>	 <p>A-014NK-6A PVDF INJECTOR</p>

Visit Accessory Pages for more Options