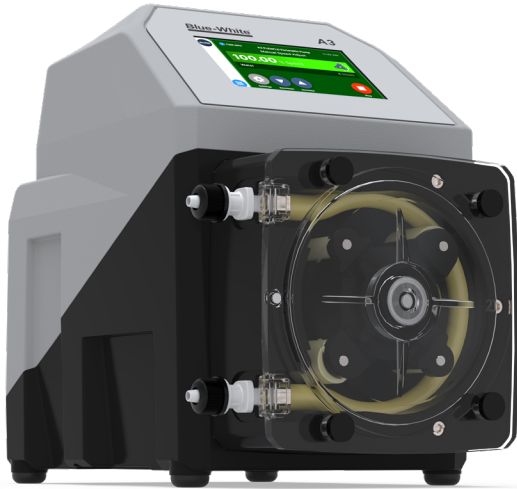



# A3

## FLEXFLO® Peristaltic Metering Pump



### Features

- > Self priming chemical metering pump delivers smooth chemical feed
- > Tube Failure Detection (TFD) senses tube rupture
- > Safe and simple tube replacement
- > Signal inputs include: 4-20mA, Pulse Inputs, Frequency Inputs
- > Signal outputs include: 4-20mA Output, Frequency Output, one 250V/6 AMP relay output, three 115V/1A output alarm

Video link: 



### Highlights

**Flow range**

.001 – 33.3 GPH  
.003 – 126 LPH

**Pressures**

125 PSI  
(8.6 bar)

**Turndown ratio**

2,500 : 1

**Exclusive**

Tube Failure Detection (TFD)

**Motor**

Brushless DC Motor

**Warranty**

2 Years

### Control Methods

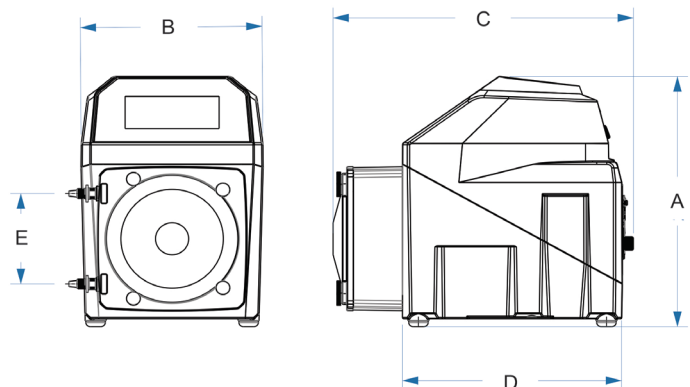
Control Methods	Manual Control	4-20mA Input	Remote Start/Stop	Pulse Input	Frequency Input	Ethernet/IP	Modbus TCP/IP	Profibus	4-20mA Output	(4) Alarm Outputs	FVS
A3	•	•	•	•	•	•	•	•	•	•	•



<b>Maximum Working Pressure (excluding pump tubes)</b>	125 psig (8.6 bar) <b>NOTE:</b> see individual pump tube assembly max. pressure ratings.
<b>Maximum Fluid Temperature (excluding pump tubes)</b>	185 °F (85 °C) <b>NOTE:</b> see individual pump tube assembly max. temperature ratings.
<b>Ambient Operating Temperature</b>	14 °F to 115 °F (-10 °C to 46 °C)
<b>Ambient Storage Temperature</b>	-40 °F to 158 °F (-40 °C to 70 °C)
<b>Maximum Viscosity</b>	12,000 Centipoise
<b>Maximum Suction Lift</b>	30 ft. Water, 0 psig (9.14 m, 0 bar)
<b>Operating Voltage</b>	115VAC/60Hz, 1ph (2.0 Amp Maximum)
	230VAC/60Hz, 1ph (1.0 Amp Maximum)
	220VAC/50Hz, 1ph (1.0 Amp Maximum)
	240VAC/50Hz, 1ph (1.0 Amp Maximum)
	230VAC/50Hz, 1ph (1.0 Amp Maximum)
<b>Power Cord Options</b>	115V60Hz = NEMA 5/15 (USA)
	230V60Hz = NEMA 6/15 (USA)
	220V50Hz = CEE 7/VII (EU)
	240V50Hz = AS 3112 (Australia/New Zealand)
<b>Motor</b>	230V50Hz = BS 1363/A (UK)
	Brushless DC
<b>Motor Speed Adjustment Range</b>	2,500:1 (0.04% – 100%) Max rpm = 125 rpm
<b>Motor Speed Adjustment Resolution</b>	0.1% increments > 1% motor speed and < 100%
	0.01% increments < 1% motor speed
<b>Display</b>	5" touchscreen color LCD, UV resistant
<b>Display Languages</b>	English, Spanish, French, German, and Portuguese selectable
<b>Security</b>	Programmable 6-digit password
<b>Maximum Overall Dimensions</b>	8-1/4"W x 11-3/4"H x 13-1/4"D (20.9W x 29.8H x 34.5D cm)
<b>Product Weight</b>	25.4lb. (11.5 Kg)
<b>Approximate Shipping Weight</b>	30 lb. (13.6 Kg)
<b>Enclosure</b>	NEMA 4X (IP66), Polyester powder coated aluminum & Noryl
<b>RoHS Compliant</b>	Yes
<b>Standards</b>	cETLus, CE

## Dimensions

Dim	Inch	cm	Dim	Inch	cm
A	11-3/4"	29.8	D	10-1/2"	26.5
B	8-1/4"	20.9	E	4-1/4"	10.8
C	13-1/2"	34.5			



## Non-wetted Components:

**Enclosure:** 413 Aluminum (Polyester powder coated) & Noryl

**Pump Head:** Valox® (PBT) thermoplastic

**Pump Head Cover:** Polycarbonate

Permanently lubricated sealed motor shaft support ball bearing.

**Cover Screws:** Stainless steel, polypropylene cap

## Roller Assembly:

Rotor: Valox® (PBT)

Rollers: Nylon

Roller Bearings: SS Ball bearings

**Motor Shaft:** Chrome plated steel

**TFD System Sensor:** Hastelloy C-276

**Power Cord:** 3 conductor, SJTW-A water-resistant

**Mounting Brackets and Hardware:** 316 Stainless steel

## Wetted Components:

### Pump Tube Assembly:

Tubing: Flex-A-Prene®, Flex-A-Chem or Flex-A-Thane®

Adapter Fittings: PVDF

One spare tube included

Body & Insert: PVDF

Check Ball: Ceramic

### Injection / Back-Flow Check Valve (with “S”, “B”, and “M”):

Spring: Hastelloy C-276

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

Static Seal O-Ring: TFE/P (optional EPDM)

## Ancillary Items Provided:

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

### With “S” Tubing Type Only:

Discharge Tubing: 3/8" OD x 1/4" ID x 10' Polyethylene

Suction Strainer: PVDF

### With “B” Tubing and “M” M/NPT Connections Only:

(Available on ND, NKL, NGG, NEE, G2G)

Suction Strainer: PVDF

## Ancillary Items Not Included (unless stated above):

Injection Fitting, Foot Valve/Strainer, Suction Tubing/Pipe, Discharge Tubing/Pipe, Quick Disconnect Valves, or Communications Wire/ M12 Cable.

\*\* Flex-A-Prene®, Flex-A-Thane®, and Flex-A-Chem® tubing comply with FDA 21 CFR, 117.2600 criteria for food processing.

# Output Specifications

Tube Material / Size	Feed Rate			RPM	Max Pressure	Max Temperature	Roller Required
	GPH	LPH	mL/min		PSI (bar)	°F (°C)	
<b>Flex-A-Prene®</b>							
ND	.001 - 2.1	.003 - 7.8	.06 - 132	125	125 (8.6)	185 (85)	A3-SND-R
NEE	.002 - 4.76	.007 - 18.0	.12 - 300	125	110 (7.6)	185 (85)	A3-SNGG-R
NGG	.007 - 19.02	.026 - 72.0	.48 - 1200	125	110 (7.6)	185 (85)	A3-SNGG-R
NHL	.006 - 17.39	.022 - 65.8	.38 - 1097	125	65 (4.5)	185 (85)	A3-STH-R
NK	.013 - 33.3	.050 - 126.0	.82 - 2100	125	125 (8.6)	185 (85)	A3-SNGG-R
NKL	.013 - 33.3	.050 - 126.0	.82 - 2100	125	30 (2.1)	185 (85)	A3-SNGG-R
<b>Flex-A-Chem®</b>							
TH	.006 - 15.06	.022 - 57.0	.38 - 950	125	50 (3.4)	130 (54)	A3-STH-R
TK	.011 - 28.5	.043 - 108	.72 - 1800	125	50 (3.4)	130 (54)	A3-SNGG-R
<b>Flex-A-Thane®</b>							
GE	.002 - 4.60	.007 - 17.4	.13 - 290	125	65 (4.5)	130 (54)	A3-SGE-R
GG	.004 - 10.1	.015 - 38.4	.25 - 637	125	65 (4.5)	130 (54)	A3-SGE-R
G2G	.007 - 18.23	.03 - 69.0	.46 - 1150	125	65 (4.5)	130 (54)	A3-SGE-R
GH	.010 - 24.9	.038 - 94.2	.63 - 1570	125	65 (4.5)	130 (54)	A3-SGE-R
GK	.011 - 28.5	.043 - 108.0	.72 - 1800	125	65 (4.5)	130 (54)	A3-SGE-R

# Model Number Matrix

## FLEXFLO® Model Number

**A3** FLEXFLO® A3 Peristaltic Metering Pump

### Power Cord (operating voltage requirement 96VAC to 264VAC)

<b>4</b>	115V / 60HZ, power cord NEMA 5/15 plug (US)
<b>6</b>	220V / 50HZ, power cord CEE 7/VII plug (EU)
<b>X</b>	No Power Cord

### Inlet/Outlet Connection Size, Connection Type, Connection Material

<b>S</b>	3/8" OD x 1/4" ID Tube Compression Fitting, Natural PVDF (Kynar)
<b>M</b>	1/2" Male NPT Fitting, Natural PVDF (Kynar)
<b>B</b>	1/2" ID Tubing Barb Fitting, Natural PVDF (Kynar), available for ND, NEE, NGG, NKL, and G2G only
<b>C</b>	1/2"-3/4" Tri-clamp connections, Natural PVDF (Kynar), available for ND, NEE, NGG, NKL, and G2G only
<b>Q</b>	Quick Disconnect, Natural PVDF (Kynar): ND, NEE, NGG, NKL, and G2G only (Valves sold separately)
<b>MB</b>	1/2" Male BSPT Fitting, Natural PVDF (Kynar)

### Pump Tube Material, Pump Tube Size


<b>ND</b>	Flex-A-Prene® .075 ID   .001-2.1 GPH   125 PSI	<b>GE</b>	Flex-A-Thane® .125 ID   .002-4.60 GPH   65 PSI
<b>NEE</b>	Flex-A-Prene® .093 ID   .002-4.76 GPH   110 PSI	<b>GG</b>	Flex-A-Thane® .187 ID   .004-10.1 GPH   65 PSI
<b>NGG</b>	Flex-A-Prene® .187 ID   .007-19.02 GPH   110 PSI	<b>G2G</b>	Flex-A-Thane® .187 ID   .007-18.23 GPH   65 PSI
<b>NK</b>	Flex-A-Prene® .375 ID   .013-33.3 GPH   125 PSI	<b>GH</b>	Flex-A-Thane® .312 ID   .010-24.9 GPH   65 PSI
<b>NKL</b>	Flex-A-Prene® .375 ID   .013-33.3 GPH   30 PSI	<b>GK</b>	Flex-A-Thane® .375 ID   .011-28.5 GPH   65 PSI
<b>NHL</b>	Flex-A-Prene® .250 ID   .006-17.39 GPH   65 PSI	<b>TH</b>	Flex-A-Chem® .250 ID   .006-15.06 GPH   50 PSI
		<b>TK</b>	Flex-A-Chem® .375 ID   .011-28.5 GPH   50 PSI

### Pumphead Orientation

<b>(Blank)</b>	Standard - Left facing pumphead
<b>R</b>	Right facing pumphead
<b>D</b>	Down facing pumphead

**A3 S V 2 4 - S ND** Sample Model Number

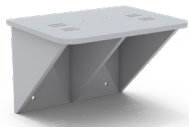
## Accessories



1/4" x 3/8" "S" Fitting  
1/2" Hose Barb "B" Fitting  
1/2" MNPT "M" Fitting

**Quick Disconnects**

- \*KIT-QSV FKM O-rings
- \*KIT-QSE EP O-rings
- \*KIT-QSA Aflas O-rings
- \*KIT-QBV FKM
- \*KIT-QBE EP
- \*KIT-QBA Aflas
- \*KIT-QMV FKM
- \*KIT-QME EP
- \*KIT-QMA Aflas



**KIT-PSM**  
Wall Mount Bracket, HDPE



**KIT-M12**  
Two M12 Cables - 9.8 ft.

90010-663 115V/60Hz NEMA 5/15  
90010-664 220V/50Hz CEE 7/V11  
90010-665 230V/50Hz BS 1363/A  
90010-666 240V/50Hz AS 3112  
90010-696 230V/60Hz NEMA 6/15  
90010-711 115V Lockable


**POWER CABLES - 6 ft**



**KIT-DP3**  
Profibus Cable, 3 ft



**TI40-6V**  
T.I. Injector, 3/8" OD



**C-340-A**  
FOOT VALVE

Visit Accessory Pages for More Options