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Blue-White®

Engineering and Technical Data

M2

FLEXFLO® Peristaltic Metering Pump



Features

> Self priming chemical metering pump delivers smooth chemical feed
> Patented Tube Failure Detection (TFD) senses tube rupture
> Signal inputs include: 4-20mA, Pulse Inputs, Frequency Inputs
> Signal outputs include: Relay (3 amp), 4-20mA, Motor Status

NSF Certified to NSF / ANSI Standard 61 · ETL c US · CE · NEMA 4X

Highlights

Flow range
.0085 - 21.23 GPH
.032 - 80.4 LPH

Pressures
125 PSI
(8.6 bar)

Turndown ratio
200 : 1

Exclusive
Tube Failure Detection
(TFD)

Motor
Brushed DC,
1/8 H.P.

Warranty
5 Years

Control Methods

Control Methods	Manual Control	4-20mA Input	Remote Start/Stop	Alarm Output	FVS	Motor Status Output
M2	•	•	•	•	•	•

For more help and information regarding **M2**, please visit www.blue-white.com or scan this QR code.

Engineering Specifications

Maximum Working Pressure (Excluding Pump Tubes)	125 psig (8.6 bar)
	NOTE: See individual pump tube assembly maximum pressure ratings.
Maximum Fluid Temperature (Excluding Pump Tubes)	3/8” OD x 1/4” ID tubing connections: 130 °F (54 °C) M/NPT connections: 185 °F (85 °C)
	NOTE: See individual pump tube assembly max. temperature ratings.
Maximum Viscosity	12,000 Centipoise
Maximum Suction Lift	30 ft. Water at sea level (14.7 atm psi)
Maximum Operating Temperature	14 °F to 115 °F (-10 °C to 46 °C)
Maximum Storage Temperature	-40 °F to 158 °F (-40 °C to 70 °C)
Operating Voltage	115VAC/60Hz, 1ph (1.5 Amp Maximum)
	230VAC/60Hz, 1ph (0.7 Amp Maximum)
	220VAC/50Hz, 1ph (1.0 Amp Maximum)
	240VAC/50Hz, 1ph (1.0 Amp Maximum)
Power Cord Options	115V60Hz = NEMA 5/15 (USA)
	230V60Hz = NEMA 6/15 (USA)
	220V50Hz = CEE 7/VII (EU)
	240V50Hz = AS 3112 (Australia/New Zealand)
	230V50Hz = BS 1363/A (UK)
Motor	Brushed DC, 1/8 H.P.
Duty Cycle	Continuous
Motor Speed Adjustment Range	200:1 (0.5% - 100%) Max rpm = 130 rpm
Motor Speed Adjustment Resolution	0.1% increments
Display	Backlit LCD, UV resistant
Keypad	Eight button positive action tactile switch keypad
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)
Enclosure	NEMA 4X (IP66), Polyester powder coated aluminum
RoHS Compliant	Yes
Standards	NSF/ANSI 61, cETLus, CE

Output Specifications

Tubing Options	Feed Rate			Max Pressure	Max Temperature
	GPH	LPH	mL/Min	PSI (bar)	°F (°C)
Flex-A-Prene®					
ND	.01 - 1.7	.03 - 6.5	.54 - 108	125 (8.6)	185 (85)
NEE	.022 - 4.44	.084 - 16.8	1.4 - 280	110 (7.6)	185 (85)
NGG	.086 - 17.2	.325 - 65.1	5.4 - 1085	110 (7.6)	185 (85)
Flex-A-Chem®					
TH	.07 - 14.3	.27 - 54	4.5 - 900	50 (3.4)	130 (54)
Flex-A-Thane®					
GE	.02 - 4.0	.08 - 15.2	1 - 253	65 (4.5)	130 (54)
GG	.05 - 9.3	.17 - 35.2	3 - 587	65 (4.5)	130 (54)
G2G	.07 - 14.98	.03 - 56.7	4.7 - 945	65 (4.5)	130 (54)
GH	.11 - 21.23	.04 - 80.4	6.7 - 1340	65 (4.5)	130 (54)

Materials of Construction

Non-wetted Components:

Enclosure: 413 Aluminum (Polyester powder coated)

Pump Head: Valox® (PBT) thermoplastic

Pump Head Cover: Polycarbonate

Permanently lubricated sealed motor shaft support ball bearing.

Cover Screws: Stainless steel

Roller Assembly:

Rotor: Valox® (PBT)

Rollers: Machined nylon

Roller Bearings: SS Ball bearings (sealed)

Roller Shaft: 316 Stainless steel

Motor Shaft: Chrome plated steel

TFD System Sensor: Hastelloy C-276

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

Tube Installation Tool: GF nylon

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

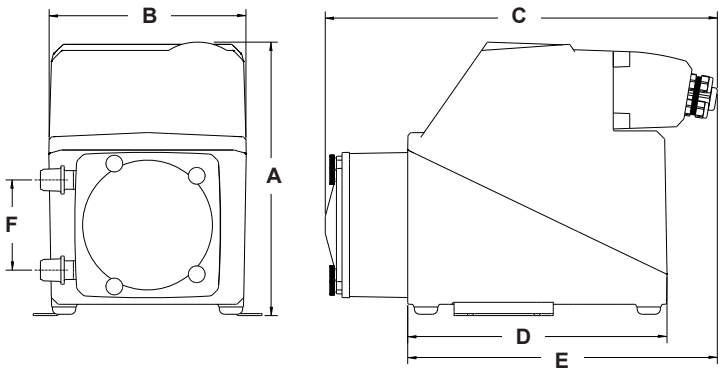
One spare tube included

Ancillary Items Not Included (sold separately):
Injection Fitting, Foot Valve/Strainer, Suction Tubing/Pipe, Discharge Tubing/Pipe, Quick Disconnect Valves, or Communications Wire/Cable.

Dimensions

Dim	Inch	cm
A	10-1/4”	26
B	7-1/2”	19
C	14”	35.6

Dim	Inch	cm
D	9-1/2”	24.1
E	11”	27.9
F	3-3/8”	8.6



Model Number Matrix

FLEXFLO® Model Number

M2	FLEXFLO® Peristaltic metering pump model number

Power Cord (operating voltage user selectable 115V/240 Vac 50/60Hz)

4	115V / 60Hz, power cord NEMA 5/15 plug (US)	**8**	240V / 50HZ, power cord AS 3112 plug (AU/New Zealand)
5	230V / 60Hz, power cord NEMA 6/15 plug (US)	**9**	230V / 50HZ, power cord BS 1363/A plug (United Kingdom)
6	220V / 50HZ, power cord CEE 7/VII plug (EU)	**X**	No Power Cord

Inlet/Outlet Connection Size, Connection Type, Connection Material

S	3/8” OD x 1/4” ID Tube Compression Fitting, Natural PVDF (Kynar)	**C**	1/2” - 3/4” Tri-clamp connections, Natural PVDF (Kynar), available for ND, NEE, NGG, and G2G only
M	1/2” Male NPT Fitting, Natural PVDF (Kynar)	**Q**	Quick Disconnect, Natural PVDF (Kynar), available for NDD, NEE, NGG,and G2G only (valves sold seperately)
B	1/2” Hose Barb, Natural PVDF (Kynar), available for ND, NEE, NGG, and G2G only	**MB**	1/2” Male BSPT Fitting, Natural PVDF (Kynar)

Pump Tube Material, Pump Tube Size, Output Range

ND	Flex-A-Prene® .075 ID	0.01-1.7 GPH	.03-6.5 LPH	.54-108 mL/M	125 PSI
NEE	Flex-A-Prene® .093 ID	0.022-4.44 GPH	.084-16.8 LPH	1.4-280 mL/M	110 PSI
NGG	Flex-A-Prene® .187 ID	0.086-17.2 GPH	.325-65.1 LPH	5.4-1085 mL/M	110 PSI
GE	Flex-A-Thane® .125 ID	0.02-4.0 GPH	.08-15.2 LPH	1-253 mL/M	65 PSI
GG	Flex-A-Thane® .187 ID	0.05-9.3 GPH	.17-35.2 LPH	3-587 mL/M	65 PSI
G2G	Flex-A-Thane® .187 ID	0.07-14.98 GPH	.03-56.7 LPH	4.7-945 mL/M	65 PSI
GH	Flex-A-Thane® .312 ID	0.106-21.23 GPH	.04-80.4 LPH	6.7-1340 mL/M	65 PSI
TH	Flex-A-Chem® .250 ID	0.07-14.3 GPH	.27-54 LPH	4.5-900 mL/M	50 PSI

Pumphead Orientation

(Blank)	Standard - Left facing
R	Right facing pumphead
D	Down facing pumphead

M2	**2**	**4**	**S**	**ND**	**R**	**Sample Model Number**

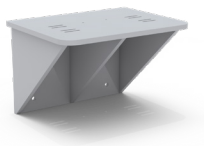
Accessories



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



KIT-PSM
Wall Mount Bracket, HDPE



A-014NK-6A
Injector, PVDF, 1/4” “S” Conn.

Visit Accessory Pages for More Options

P.N. 85000-115 M2 REV 5 202401097

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