

2330 NW 102nd Ave Unit # 3 Doral, FL 33172 **Environmental Global Solutions**

305.909.7860

Blue-White Industries, Ltd.

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BLUE-WHITE® HAS BEEN A LEADING MANUFACTURER OF TOP QUALITY FLOWMETERS, METERING PUMPS AND WATER TREATMENT ACCESSORIES FOR CLOSE TO SIX DECADES.

AT BLUE-WHITE®, WE PRIDE OURSELVES on innovative engineering, quality materials of construction and excellent customer service. Our worldwide network of factory authorized representatives, distributors, dealers and warranty centers look forward to serving you. This catalog is designed to familiarize you with Blue-White's extensive product lines. If you don't see the product that meets your system requirements please contact the factory. Blue-White® is pleased to provide price quotation for custom calibrations and feed rates; alternate materials of construction, and private labeling to volume purchasers. In addition to the products shown on these pages, Blue-White® manufactures an extensive line of products for larger system requirements, including Industrial and Municipal installations.

CHEM-FEED® METERING PUMPS

WHEN YOU NEED A TOUGH, ACCURATE, DEPENDABLE METERING PUMP INSIST ON CHEM-FEED®

CHEM-FEED[®] INJECTORS COMBINE HIGH QUALITY MATERIALS of construction and smart engineering with flexibility and value.

Because we manufacture most of the components in our own plant, including the all ball bearing gear motor, we can offer CHEM-FEED[®] metering pumps with a wide range of configuration, material, voltage and feed rate options.

All CHEM-FEED® metering pumps feature Blue-White's exclusive heavy duty cartridge valve head. The thoughtful design of this pump head begins with bullet cartridge valves constructed of tough PVDF plastic. Each valve has two ceramic ball checks and is double sealed with high grade Aflas o-rings. The double ball valve pump head design ensures enhanced priming capabilities, and it is exceptional for purging air and gas.

Because CHEM-FEED® has earned the reputation as the BEST small metering pump in the business, other manufacturers may try to confuse you by using the name CHEM-FEED®. Only Blue-White® manufactures the genuine CHEM-FEED® metering pump.

Don't Settle for Imitations – Insist on CHEM-FEED® Metering Pumps!

CHEM-FEED® BENEFITS

- Superior, efficient pump head design.
- Double Ball inlet and outlet valves which are completely interchangeable.
- PVDF valve body and fittings, ceramic ball checks, FKM and TFE/P o-rings.
- All ball bearing gear motor plus permanent lubrication.
- Quick Adjusting Output Mechanisms.
- > Efficient, Dependable Design.
- > Each Unit Factory Tested.
- Backed by an excellent
- limited warranty.

CHEM-FEED® APPLICATIONS

- Water treatment and conditioning.
- Soap, wax and detergent injection.
- Wastewater treatment.Biocide feed.
- Rural water systems.
- Cooling tower & boiler treatment.
- > Fertilizer and nutrient injection.
- Pool chlorination & PH control.

CHEM-FEED® OPTIONS

There are a wide range of feed/output rate options, voltage options and configuration options. In addition, the factory is pleased to quote on custom material and color options as well as, private labeling and packaging for volume purchasers.

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CHEM-FEED

C-1100E

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CHEM-FEED

C-600P

CHEM-FEED C-GOOP SIMPLE. PROVEN. PERFORMANCE.

CHEM-FEED® C-600P BENEFITS

- > Easy access, side mounted mechanical output rate adjustment.
 > Double-ball inlet and outlet cartridge type ceramic
- check valves.
- PVDF valve body and fitting, ceramic balls, FKM and TFE/P o-rings.
- Superior pump head design of precision molded polypropylene.
 PTFE coated EP diaphragm.
- All ball bearing, permanently lubricated gear motor for smooth, powerful operation.
- Polypropylene injection check valve with FKM and TFE/P o-rings and spring loaded ceramic ball seal.
- PVDF suction (foot) valve with FKM and TFE/P o-rings, ceramic check ball and removable polypropylene filter screen.
- Includes 3/8" OD, 1/4" ID suction and discharge tubing, and all mounting hardware.
- Efficient, dependable design each unit is factory tested.
- > Private labeling for volume purchasers.

C-600P ORDERING GUIDELINES

STANDARD MODEL with Stroke Adjustment							
MODEL		MAX OUTPUT @ 0 PSI					
NUMBER	GPD	GPH	LPH	OZ/MIN	PSI		
C-614P-(*)VAC	24	1.0	3.8	2.7	125		
C-630P-(*)VAC	58	2.4	9.3	5.2	125		
C-645P-(*)VAC	91	3.8	14.9	8.1	80		
C-660P-(*)VAC	110	4.6	17.4	9.8	60		
C-6125P-(*)VAC	237	9.9	37.0	21.1	30		
C-6250P-(*)VAC	389	16.2	61.4	34.6	10		

VOLTAGE OPTIONS

(*)Replace: 115=115V/60Hz, 220=220V/50Hz, 230=230V/60Hz, 24=24V/60Hz

Note: 220V/50Hz units deliver approx. 20% less output

C-600P	
SPECIFICATIO	NS
Max. Working Pressure	. 125 psig (8.6 bar)
Max. Fluid Temperature	
Ambient temp range	. 14° to 110° F (-10° to 43° C)
Max. viscosity	
Max. suction lift	
Output accuracy	. +/- 10% of max.
	(water 0 psi, 5' suction lift)
Turndown ratio	. 27:1 Standard models
Amperage draw	. 115V/60Hz starting .74 / running .45
	230V/60Hz starting .36 / running .21
	220V/50Hz starting .31 / running .19
	24V/60Hz starting 3.4 / running 2.0
	12VDC 3.0 amp max
Dimensions	. 6-1/2" H x 6-5/8" W x 5-3/8" D
Approximate shipping wt.	. 8 lb. (3.6 kg)





CHEM-FEED[®] (-600HV

CHEM-FEED® C-600HV BENEFITS

- > Acrylic pump head.
- > Ethylene-propylene diaphragm.
- > Ethylene-propylene O-ring seals.
- > 1/2" ID barbed tubing connections.

CHEM-FEED® C-600HV APPLICATIONS

- > Low pressure and open atmosphere metering.
- > Plating chemicals.
- > Water and wastewater treatment.

C-600HV ORDERING GUIDELINES

STANDARD MODEL with Stroke Adjustment						
MODEL		MAX OUT	PUT @ 0 PS	51	MAX	
NUMBER	GPD	GPH	LPH	OZ/MIN	PSI	
C-660HV-(*)VAC	189	7.8	29.5	16.8	20	
C-6125HV-(*)VAC	398	16.5	62.4	35.3	10	
C-6250HV-(*)VAC	791	32.9	124.5	70.3	5	

VOLTAGE OPTIONS (*)Replace: 115=115V/60Hz, 220=220V/50Hz, 230=230V/60Hz, 24=24V/60Hz Note: 220V/50Hz units deliver approx. 20% less output. 12V DC and 24V DC models also available.

C-600HV SPECIFICATIONS

Max. Working Pressure 20 psig (1.4 bar)
Max. Fluid Temperature 130° F (54° C)
Ambient temp range 14° to 110° F (-10° to 43° C)
Max. viscosity 1000 Centipoise
Max. suction lift 10 ft. Water
Output accuracy +/- 10% of max. (water 0 psi, 5' suction lift)
Turndown ratio 27:1 Standard models
Amperage draw 115V/60Hz starting .74 / running .45
230V/60Hz starting .36 / running .21
220V/50Hz starting .31 / running .19
24V/60Hzstarting 3.4 / running 2.0
12VDC3.0 amp max
24VDC1.50 amp max
Dimensions
Approximate shipping wt 8 lb. (3.6 kg)



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CHEM-FEED C-1500N QUALITY. PERFORMANCE. OPTIONS.

Blue-White's CHEM-FEED® C-1500N Metering Pumps are well suited to a variety of water and wastewater treatment applications.

C-1500N Series injectors feature Blue-White's exclusive Heavy Duty Head with Cartridge Valves constructed of tough PVDF. Each valve has two ceramic checks, and is double sealed. The double ball valve design provides enhanced priming, and is exceptional for purging air and gas. The Heavy Duty Head is nearly maintenance-free, and Bottom and Top Valves are completely interchangeable for quick, easy and economic servicing.

Two distinct C-1500N Models are offered. The STANDARD C-1500N has an easy to adjust dial-type, top mounted mechanical stroke length (output) control. The efficient design allows for minimum stroke length of 5%. DELUXE Models feature stroke length and time interval control. The pump's on time is adjustable from 5–100% of the repeating 5 second time interval (0.25-5.0). The high frequency of the repeating 5 second time interval, and the extremely accurate mechanical stroke adjustment, result in a higher frequency of small injections per minute.

C-1500N SPECIFICATIONS

Max. Working Pressure	. 125 psig (8.6 bar)
Max. Fluid Temperature	
Ambient temp range	14° to 110° F (-10° to 43° C)
Max. viscosity	1000 Centipoise
Max. suction lift	10 ft. Water
Output accuracy	+/- 10% of max. (water 0 psi, 5' suction lift)
Turndown ratio	20:1 Standard models, 200:1 Deluxe models
Enclosure	Acceptable for outdoor use. NEMA 3R (IP23)
Amperage draw	115V/60Hz starting .74 / running .45
	230V/60Hz starting .36 / running .21
	220V/50Hz starting .31 / running .19
	24V/60Hz starting 3.4 / running 2.0
0-ring seals	FKM and TFE/P (Optional EP)
Dimensions	.9-1/2" H x 4-1/2" W x 5-3/4" D
Approximate shipping wt	8 lb. (3.6 kg)

C-1500N ORDERING GUIDELINES

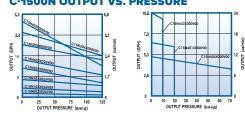
STANDARD MODEL with Stroke Adjustment

JIANDARD MODEL WITH STORE AUJUSTITETT							
MODEL		MAX OUTPUT @ 0 PSI			Max Strokes	MAX	
NUMBER	GPD	GPH	LPH	OZ/MIN	Per minute	PSI	
C15N0(*)2X026V00	3.4	0.2	0.5	0.3	14	125	
C15N1(*)2X026V00	8.3	0.3	1.3	0.7	30	125	
C15N3(*)2X026V00	16.3	0.6	2.5	1.4	60	125	
C15N2(*)2X000V00	26.6	1.1	4.2	2.4	45	125	
C15N4(*)2X026V00	34.2	1.4	5.4	3.0	125	125	
C15N2(*)4X000V00	49.0	2.0	7.7	4.3	45	125	
C15N3(*)4X000V00	57.7	2.4	9.1	5.1	60	125	
C15N4(*)2X000V00	68.4	2.8	10.8	5.9	125	125	
C15N4(*)4X000V00	119.7	4.9	18.9	10.6	125	70	
C15N4(*)1X000V00	155.9	6.4	24.6	13.8	125	20	
C15N4(**)3X000V00	228.1	9.5	36.0	20.2	125	10	

DELUXE MODEL with Stroke and Time Interval Adjustment								
MODEL	Max Strokes	MAX						
NUMBER	GPH	LPH	OZ/MIN	Per minute	PSI			
C15N4(*)2I026V00	.007-1.4	.027-5.40	.015-3.00	125	125			
C15N4(*)2I000V00	.014-2.8	.054-10.8	.030-5.90	125	125			
C15N4(*)11000V00	.032-6.4	.123-24.6	.069-13.8	125	20			
VOLTAGE OBTIONS								

VOLTAGE OPTIONS (*)Replace: 0=115V/60Hz, 1=220V/50Hz, 2=230V/60Hz, 3=24V/60Hz (**)Replace: 4=115V/60Hz, 5=220V/50Hz, 6=230V/60Hz Note: 220V/50Hz units deliver approximately 20% less output

C-1500N OUTPUT VS. PRESSURE







CHEM-FEED C-1700N DUPLEX HEAD PUMP

The CHEM-FEED® C-1700N Duplex Head Metering Pump features two independently controlled pump heads.

Because of the unique duplex head configuration, motor power is used to maximum efficiency. This is of particular importance for overcoming backpressure. Also, alternating strokes mean double the injections per minute. For example, a 125 RPM delivers 250 injections per minute, or four injections per second. This is of significance for applications requiring a pump approaching a constant, even feed rate, without broad spaces of time between injections.

The C-1700N can be used to inject different amounts of like chemical into separate systems, feed two different chemicals into the same system (blend), or when a single head pump doesn't provide quite enough output.

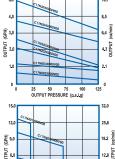
C-1700N SPECIFICATIONS

Max. Working Pressure	125 psig (8.6 bar)
Max. Fluid Temperature	130° F (54° C)
Ambient temp range	14° to 110° F (-10° to 43° C)
Max. viscosity	1000 Centipoise
Max. suction lift	10 ft. Water
Output accuracy	+/- 10% of max. (water 0 psi, 5' suction lift)
Turndown ratio	20:1 Standard models
	400:1 Deluxe models with optional Time
	Interval controller
Amperage draw	115V/60Hz starting .74 / running .45
	230V/60Hz starting .36 / running .21
	220V/50Hz starting .31 / running .19
	24V/60Hz starting 3.4 / running 2.0
0-ring seals	
Dimensions	9-1/2" H x 7-1/2" W x 4" D
Approximate shipping wt	11 lb. (5.0 kg)

C-1700N ORDERING GUIDELINES

MODEL	Max Strokes	MA)				
NUMBER	GPD	GPH	LPH	OZ/MIN	Per minute	PSI
C17NO(*)2X000V00	14.2	0.6	2.3	1.3	14	125
C17NO(*)4X000V00	28.9	1.2	4.5	2.6	14	125
C17N2(*)2X000V00	50.2	2.1	7.9	4.4	45	12
C17N3(*)2X000V00	62.3	2.6	9.8	5.5	60	12
C17N2(*)4X000V00	89.7	3.7	14.1	8.0	45	12
C17N3(*)4X000V00	119.0	5.0	18.8	10.6	60	12
C17N4(*)2X000V00	133.8	5.5	21.1	11.9	125	12
C17N4(*)4X000V00	243.3	10.1	38.4	21.6	125	70
C17N4(*)1X000V00	304.2	12.6	48.0	27.0	125	20

C-1700N OUTPUT **VS. PRESSURE**



(*)Replace: 0=115V/60Hz, 1=220V/50Hz, 2=230V/60Hz Note: 220V/50Hz units deliver approximately 20% less output

Please Note: Outputs given are a combined total of both pump heads using pure water at zero gauge pressure All C-1700N are shipped complete with accessory package. Ordering matrix available on request, Order #85000-057.



INNICATOR CHEMICAL FEED PUMPS BENEFITS

- > Rhythmic rising and falling of the ball indicates positive flow.
- Air bubbles indicate chemical has exhausted.
- Stationary ball indicates no flow. Possible problems could be: plugged or dirty
 - lost prime
 - stopped motor
 - plugged injection fitting
 - faulty tube or diaphragm

APPLICATIONS

Glass bobbin for Chlorines and Acids.

> Stainless Steel bobbin for soaps and waxes (high viscose fluids).

footvalve filter

chemical has been

lengthy period of time

exhausted for a

ORDERING GUIDELINES

MODEL	Tube	Bobbin	Body	0-ring
NUMBER	Connection	Material	Material	
FI-100-4V	1/4" tubing	Glass	Acrylic	FKM
FI-100S-4V	1/4" tubing	Stainless Steel	Acrylic	FKM
FI-100-6V	3/8" tubing	Glass	Acrylic	FKM
FI-100S-6V	3/8" tubing	Stainless Steel	Acrylic	FKM

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Environmental Global Solutions

FOOT VALVE/STRAINER

APPLICATIONS

- Foot Valve / Strainer (with check valve) is recommended for CHEM-FEED[®] models C-340A and C-340E.
- Foot Strainer (no valve) is recommended for FLEXFLO® peristaltic pumps model C-342-6.
- > Capacity of strainer is 300 micron.

ORDERING GUIDELINES

MODEL	Tube	(OD)	Body	
NUMBER	Connection	Valve	Material	0-ring
C-340A	1/4" and 3/8" tubing	Check Valve	PVDF	
C-340E	1/4" and 3/8" tubing	Check Valve	PVDF	EP
C-342-6	1/4" and 3/8" tubing	No Valve, strainer only	Polypropylene	





CHEM-FEED STAR SYSTEM SHIPS COMPLETE



Blue-White's CHEM-FEED® STAR SYSTEM is shipped complete with the CHEM-FEED® C-1500N metering pump of your choice, STANDARD or DELUXE.

The Star System includes the CHEM-FEED C-1500N metering pump of your choice mounted on a sturdy polyethylene tank. Flooded suction assists in priming.

NUMBER

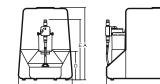
For a thoughtfully designed top quality Metering System, choose the Star System.

DIMENSIONS = INCH (CM)

STAR SYSTEM C-1500N BENEFITS

- > Three tank capacities to choose from:
- 7 gallon, 15 gallon, or 30 gallon.
- All necessary accessories are included. > The Polyethylene tank has extra heavy wall thickness for stability with U.V.
- inhibitor for sunlight protection.
- Lid positions include open, closed, or vent.
- > Convenient rectangle shape.
- Raised off the floor for easy wash down.

STAR SYSTEM



125 T15N0(*)2X026V0(* 3.4 0.2 0.5 0.3 14 30 60 45 125 125 125 125 125 T15N1(*)2X026V0(* 8.3 0.3 1.3 0.7 T15N3(*)2X026V0(** T15N2(*)2X000V0(** 16.3 0.6 26.6 1.1 2.5 1.4 4.2 2.4 T15N4(*)2X026V0(* 34.2 1.4 5.4 3.0 125 T15N2(*)4X000V0(* T15N3(*)4X000V0(* 49.0 2.0 57.7 2.4 7.7 4.3 9.1 5.1 125 125 45 60 T15N4(*)2X000V0(* 68.4 2.8 10.8 5.9 125 125 T15N4(*)4X000V0(* 119.7 4.9 18.9 10.6 125 125 70 20 T15N4(*)1X000V0(155.9 6.4 24.6 13.8 T15N4(**)3X000V0(***) 228.1 9.5 36.0 20.2 125 10 DELUXE MODELS with 7, 15, and 30 GALLON Tanks MAX OUTPUT @ 0 PSI LPH 0Z/MIN Max Strokes MAX Per minute PSI MODEL NUMBER GPH T15N4(*)2I026V00 .007-1.4 .027-5.40 .015-3.00 125 125

STAR SYSTEM ORDERING GUIDELINES STANDARD MODEL with 7, 15, and 30 GALLON Tanks MAX OUTPUT @ 0 PSI Max Strokes MAX

GPD GPH LPH OZ/MIN

Per minute PSI

T15N4(*)2I000V00 T15N4(*)1I000V00	.014-2.8	.054-10.8	.030-5.90	125 125	125 20
VOLTAGE OPTIONS	.032-0.4	.12J-24.0	.005-15.8	123	20

(*) Replace: 0=115V/60Hz, 1=220V/50Hz, 2=230V/60Hz

(**) Replace: 4=115V/60Hz, 5=220V/50Hz, 6=230V/60Hz Note: 220V/50Hz units deliver approximately 20% less output

GALLON OPTIONS

(****) Replace: 1=7 Gallon, 2=15 Gallon, 3=30 Gallon

STAR TANKS ONLY CAPACITY GAL LITER 7

		DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	SHIP WT.	MODEL		ACITY
	7 GALLON TANK	17.5 (44.5)	12.0 (30.5)	16.0 (41.0)	7.8 (19.7)	17.0 (43.0)	19 LB. (9 Kg)	NUMBER	GAL	LITER
	15 GALLON TANK	22.0 (56.0)	15.5 (38.0)	19.5 (50.0)	7.8 (19.7)	17.0 (43.0)	28 LB. (13 Kg)		7	26.5
	30 GALLON TANK	27.0 (69.0)	20.0 (51.0)	24.0 (61.0)	7.8 (19.7)	17.0 (43.0)	36 LB. (16 Kg)	STAR 15	15	57
1								STAR 30	30	113.5

FLEXFLO[®] STAR III[®] metering system

Blue-White's STAR III® Metering System features the FLEXFLO® A-100N Series Peristaltic Metering Pump of your choice, combined with a sturdy Polyethylene tank.

Choose between FLEXFLO'S fixed or variable speed A-100N models, equipped with standard or digital controls.

For an efficient and dependable Peristaltic Metering System Package, get FLEXFLO® STAR III®.

FLEXFLO® STAR III® BENEFITS

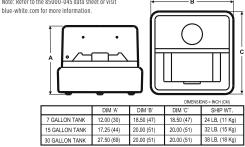
- Three tank capacities to choose from: 7 gallon, 15 gallon, or 30 gallon.
- All necessary accessories are included.
- > The Polyethylene tank has extra heavy wall thickness for stability with U.V. inhibitor for sunlight protection.
- Lid positions include open, closed, or vent.
- Convenient rectangle shape.

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> Raised off the floor for easy wash down.

Note: Refer to the 85000-045 data sheet or visit



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STAR III® with 15 Gallon Tank

CHEM-FEED C-1100 SERIES DIAPHRAGM METERING PUMPS

CHEM-FEED® DELIVERS PRECISION, CHEMICAL METERING AND SMOOTH, POWERFUL OPERATION.

DELUXE C MODEL with Stroke Length & Time Interval Control

CHEM-FEED® BENEFITS

- Superior pump head design.
- Max feed rate of 15 GPH (56.8 LPH).
- > All ball bearing, permanently lubricated gear
- motor for smooth, powerful operation. Efficient, dependable design - each unit is factory tested.
- > Private labeling for volume purchasers.*
- 3/8" OD x 1/4" ID tubing connections.
- > Pump head design and material options

CHEM-FEED® APPLICATIONS

- > Water treatment and conditioning.
- > Soap, wax and detergent injection.
- > Wastewater treatment.
- > Biocide feed.
- > Rural water systems.
- > Cooling tower & boiler treatment.
- Fertilizer and nutrient injection.
- Pool chlorination & PH control.

CHEM-FEED® SPECIFICATIONS

6PH)

C-1100 **OUTPUT VS. PRESSURE**

19.2

Max. Working Pressure	150 psig (10.3 bar)
Max. Fluid Temperature	130° F (54° C)
Ambient temp range	14° to 110° F (-10° to 43° C)
Max. viscosity	1000 Centipoise
Max. suction lift	
	+/- 1% full scale repeatability
Turndown ratio	20:1 Standard Fixed Models
	400:1 Deluxe Fixed Models
	4000:1 Digital Fixed Models
	400:1 Variable Speed Models
	Acceptable for outdoor use. NEMA 3R (IP23)
Amperage draw	115V/60Hz start 1.37 / run .35
	230V/60Hz start 0.57 / run .18
	220V/50Hz start 0.49 / run .23
0-ring seals	
Dimensions	
Approximate shipping wt	12 lb. (5.4 kg)

CHEM-FEED[®] FIXED SPEED vs. VARIABLE SPEED

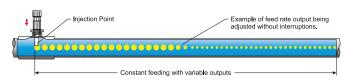
FIXED SPEED MODELS (intermittent cycle time output) You control the pumps feed by using timers (built-in or external). See image below.

,	Injection Point	
		00000000000
1 Mir	← 30 Second Feed →	← 30 Second Feed → — 1 Minute Control Timer ————————————————————————————————————

Most fixed speed outputs can be adjusted by simply: 1) Selecting the pump head diaphragm size. 2) Manual stroke length adjustment (cam style).

3) Choosing the desired RPM (revolutions per minute).

VARIABLE SPEED MODELS (continuous pulse free output) Continuous pumping, even while adjusting the percentage of output. See image below.



Graphical representation of the Variable Speed and Fixed Speed peristaltic pump injection characteristics. NOTE: Your chemical or solution is mixed in the fluid. This image is only illustrating the feed characteristics.

* Provided purchase requirements are met.

2330 NW 102nd Ave Unit # 3 Doral, FL 33172



Standard Model

CHEM-FEED® STANDARD X MODEL FIXED SPEED

Features a quick-adjusting, high accuracy mechanical stroke length control. The efficient design of the pump allows for a minium stroke length of 5%. Maximum recommended output is 5% of maximum.





Deluxe Models

CHEM-FEED® DELUXE C MODEL FIXED SPEED

Features stroke length and electronic time interval control. The pumps' on-time is adjustable from 5-100% of the repeating 5 second time interval. (0.25-5.0 seconds). The high frequency of the repeating 5 second time interval and the extremely accurate mechanical stroke adjustment, result in a higher frequency of small injections per minute. Minimum recommended output is 5% of maximum.

CHEM-FEED® DELUXE F MODEL VARIABLE SPEED

Stroke length and analog speed control. The pumps' speed is adjustable from 5-100% of the maximum using a dial knob style controller. The minimum recommended output is .25% of the maximum. No special input signal connectors to purchase. Model features a 1 amp alarm output.

Digital Models

CHEM-FEED® DIGITAL E MODEL FIXED SPEED

Features stroke length, electronic user programmable time interval. Interval lengths are user programmable from 0.1 to 99 seconds, in 0.1 increments, with external interval control. The unit accepts pulse inputs (programmable from 1-9900) which can trigger programmable timed chemical injection batches from 0.1-99 seconds in duration. Analog signals can be used to remotely vary the interval timer's on-time adjustment.

CHEM-FEED® DIGITAL V MODEL VARIABLE SPEED

Features stroke length, manual digital percentage and external input signal speed control. The unit accepts pulse inputs from 1-999Hz and 4-20mA or 0-10VDC analog input signals. The minimum and maximum speed at the minimum and maximum input values can be programmed using the digital LCD display. Flow verification sensor option is available. No special input signal connectors to purchase. Model features a 1 amp alarm output.

CHEM-FEED ORDERING GUIDELINES ALL MODELS

MODEL NUMBER	M GPD	MAX OUTP GPH	UT AT O PS LPH	I OZ/MIN	Max Strokes Per minute	MAX PSI
C11(*)3(**)4X000V00	57.7	2.4	9.1	5.1	60	150
C11(*)4(**)4X000V00	119.7	4.9	18.9	10.6	125	150
C11(*)4(**)1X000V00	155.9	6.4	24.6	13.8	125	150
C11(*)5(**)4X000V00	260.8	10.8	41.1	23.1	250	100
C11(*)5(**)3X000V00	360.0	15.0	56.8	32.0	250	25

MODEL OPTIONS

(*)Replace: X= STANDARD X MODELS with Stroke Adjustment

C=DELUXE C MODELS with Stroke and Time Adjustment

E=DIGITAL E MODELS with Stroke, Pulse, and 4-20mA Adjustment

F=DELUXE F MODELS with Stroke and Dial Knob Speed Adjustment (Variable Speed)

V=DIGITAL V MODELS with Stroke, Pulse, and 4-20mA Analog Speed Adjustment (Variable Speed)

VOLTAGE OPTIONS (*)Replace: 4=115V/60Hz, 5=220V/50Hz, 6=230V/60Hz, 7=240V/50Hz Note: 220V/50Hz units deliver approximately 20% less output.



FLEXFLO[®] PERISTALTIC METERING PUMPS

WHEN YOUR INSTALLATION NEEDS A COMPACT PERISTALTIC METERING PUMP DON'T SETTLE FOR LESS THAN THE BEST—FLEXFLO[®]!

PERISTALTIC INJECTORS ARE WELL SUITED TO METERING CHEMICALS that could foul heads with conventional check valves. Peristaltic pumps have rollers that compress the tube in a progressive squeezing action.

Blue-White's superior FLEXFLO® peristaltic injectors have an impressive edge over the others. Only FLEXFLO® pumps feature Blue-White's Superior Pump Head and Tube Design.

All FLEXFLO® Peristaltic Pumps are equipped with Blue-White's exclusive patented TUBE FAILURE DETECTION SYSTEM. No other manufacturer can offer this feature.

When you want the Best Compact Peristaltic Metering Injector – Get FLEXFLO[®]!

IMPROVED: PUMP HEAD & TUBE DESIGN

- Acreased Performance: The precision circumference of the New Pump Head ensures even greater accuracy. Larger internal adapter ports will handle higher viscosity fluids.
- **Increased Strength:** A strong pump head adapter plate ensures adapters are secured in place. Tougher, more durable tube adapters are manufactured of natural PVDF.
- Easy Reorder: Tube assemblies are now stamped with simple reorder number.

FLEXFLO® OPTIONS There are a wide range of feed/output rate options, voltage options, motor options, feature and configuration options. In addition, the factory is pleased to quote on custom material and output options, as well as private labeling and packaging for volume purchasers meeting purchase requirements.

FLEXFLO® BENEFITS

- Precise chemical feed up to 124 GPD / 11.01oz/min.
- Max working pressure of 100 PSI / 6.9 bar.
- > Exclusive, Built-in Tube Failure Detection System (TFD).
- FLEXFLO® A-100N pumps are compatible with Blue-White's Micro-Flo Verification Sensor.
- Micro-Flo Verification Sensor.
- De-gassing design eliminates gas or air accumulation in the head.
 Output amount is not affected by changes in back pressure.
- Durable housing of rugged Valox.

FLEXFLO® APPLICATIONS

- Water treatment and conditioning
- Proportional Chemical injection.
- Wastewater treatment.
- Biocide feed.
- Rural water systems.
- Cooling tower & boiler treatment.
- Fertilizer and nutrient injection.
- > Pool chlorination & PH control.

FLEXFLO® SPECIFICATIONS

FLEXFLO A-100NF - VARIABLE SPEED UNIT

with Percentage Speed Control

Max. Working Pressure	. 100 psig (6.9 bar)
Max. Fluid Temperature	.130°F (54°C)
Ambient Temp Range	.14° to 110°F(-10° to 43°C)
Max. Viscosity	
Max. Suction Lift	. 30 ft. Water 0 psig
Duty Cycle	. Continuous
Max. Solids	.50% by volume
Amperage Draw	.115V/60Hz, 230V/60Hz, 220V/50Hz
Injection Fitting O-ring Seals	
Dimensions	. 6-1/4" H x 10" W x 9-1/4" D
Approx. Shipping Weight	.10 lb. (4.5 kg)

A-100N

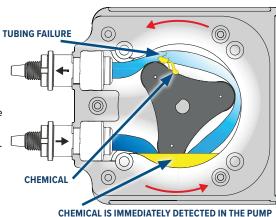
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THE EXCLUSIVE PATENTED TUBE FAILURE DETECTION SYSTEM



Blue-White's exclusive patented Tube Failure Detection system, no one comes close to this breakthrough technology (U.S. patent: 7,001,153 and 7,284,964). In fact, the TFD may be the most important patent ever awarded for peristaltic metering pumps. [[] The TFD System will detect a wide range of conductive chemicals with no false triggering. If the TFD senses tube failure, the pump will automatically shut off and energize a relay or switch, permitting communication with external equipment, such as a back-up pump or alarm.

Simple, efficient and BUILT-IN to every FLEXFLO® Pump



CHEMICAL IS IMMEDIATELY DETECTED IN THE PUMP HEAD. THE PUMP SHUTS DOWN.

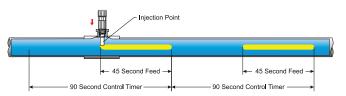
2330 NW 102nd Ave Unit # 3 Doral, FL 33172

FLEXFLO[®] FIXED SPEED vs. VARIABLE SPEED units

FIXED SPEED MODELS (intermittent cycle time output)

You control the pumps feed by using timers

(built-in or external). See image below.

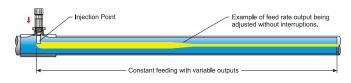


Most fixed speed outputs can be adjusted by simply: 1) Selecting the pump head tube size

2) Choosing the desired RPM (revolutions per minute).

VARIABLE SPEED MODELS (continuous pulse free output)

Continuous pumping, even while adjusting the percentage of output. See image below.



Graphical representation of the Variable Speed and Fixed Speed peristaltic pump injection characteristics. NOTE: Your chemical or solution is mixed in the fluid. This image is only illustrating the feed characteristics.

FLEXFLO[®] PUMP TUBING MATERIAL SELECTION GUIDE

FLEX-A-PRENE® TUBING

Alcohol general Aluminum Sulfate (Alum) Ammonium chloride Ammonium hydroxide Benzyl alcohol Bleach Brine solutions Calcium hydroxide Calcium hypochlorite 20% Citric Acid Ethylene glycol Ferric chloride Ferric nitrate Ferric sulfate Ferrous chloride - 43% in water Ferrous sulfate Fluosilic Acid (up to 25%) Formic acid Glucose Hydrochloric acid 33%

Hydrocyanic acid Hydrogen peroxide Hypochlorous acid lodine Magnesium chloride Magnesium sulfate Phosphoric acid Plating solutions Polyaluminum Chloride (PAC) Potassium hydroxide Propylene glycol Sodium hydroxide 50% Sodium bisulfite Sodium chlorite 12% Sodium hypochlorite 12.5% Sodium sulfide Sulfuric acid (up to 50%) Tannic acid

FLEX-A-THANE[™] TUBING

Cvclohexane Diesel Fuel Fatty acids Gasoline Heptane Hexane Kerosene Lard Mineral spirits Oils: ASTM reference No.1,2,3 Castor Coconut Fuel Linseed Lubricating Mineral Soap solutions Turpentine

FLEX-A-CHEM[™] TUBING

Ferrous chloride (up to 40%) Fluoboric acid (up to 48%) Fluosilicic acid (up to 25%) Hydrofluoric acid (up to 48%) Nitric Acid (up to 71%) Phosphoric acid (up to 85%) Potassium hypochlorite (up to 70%) Sodium phosphate (up to 30%) Sulfuric acid (up to 98%) Bases Salts Ketones Alcohols: Isobutyl Alcohol Applications Ink and solvent production Battery acid filling Specialty chemical production / processing Sensitive fluid transfer

FLEXFLO[®] ORDERING GUIDELINES FIXED & VARIABLE SPEED

МАХ

FLEX-A-PRENE® TUBING

MODEL	N	MAX			
NUMBER	GPD	GPH	OZ/MIN	ML/MIN	PSI
A1NO(*)(**)-4T	2.3	0.10	0.20	6	100
A1N1(*)(**)-4T	4.9	0.21	0.44	13	100
A1N2(*)(**)-4T	8.0	0.33	0.71	21	100
A1N1(*)(**)-6T	16.0	0.67	1.42	42	100
A1N2(*)(**)-6T	24.0	1.00	2.13	63	100
A1N3(*)(**)-6T	30.1	1.25	2.67	79	75
A1N1(*)(**)-7T	52.5	2.19	4.66	138	50
A1N3(*)(**)-7T	95.1	3.96	8.45	250	50

FLEX-A-THANE[™] TUBING MODEL MAX OUTPUT @ ANY PRESSURE A1 A1

NUMBER	GPD	GPH	OZ/MIN	ML/MIN	PS
A1NO(*)(**)-1T	5.7	0.24	0.51	15	65
A1N3(*)(**)-1T	25.5	1.06	2.26	67	65
A1N3(*)(**)-2T	53.2	2.22	4.73	140	65
A1N2(*)(**)-3T	99.2	4.14	8.82	261	50
A1N3(*)(**)-3T	124.0	5.17	11.01	326	50

FLEX-A-CHEM[™] TUBING

MODEL	N	MAX OUTPUT	@ ANY PRES	SURE	MAX
NUMBER	GPD	GPH	OZ/MIN	ML/MIN	PSI
A1NO(*)(**)-8T	24.0	1.00	2.13	63	50
A1N1(*)(**)-8T	30.1	1.25	2.67	79	50
A1N3(*)(**)-8T	30.1	1.25	2.67	79	50



(*)Replace: 0=115V/60Hz, 1=220V/50Hz, 2=230V/60Hz Note: 220V/50Hz units deliver approximately 20% less output. MODEL OPTIONS

(**)Replace: C=A100NC, E=A100NE, F=A100NF, V=A100NV



FLEXFLO[®] A-100N PERISTALTIC METERING PUMPS

TED system

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TRIII \$ 1

Analog Units

FLEXFLO® A-100NC ANALOG FIXED SPEED

- Precise output control to 20:1 turndown by means of a dial knob.
- Adjustable 5 second repeating interval timer (0.25 - 5.0 sec) results in high frequency of small injections per minute.

FLEXFLO® A-100NF ANALOG VARIABLE SPEED

- Manual output control.
- Easy Dial knob style output percentage speed adjustment.
- Nothing to program.
- 15 100% output adjustment.
- > On-Off power switch.
- Variable speed results in near continuous injection.

Digital Units

FLEXFLO® A-100NE DIGITAL FIXED SPEED

- Manual output control digital interval timer for 200:1 turndown ratio.
- Accepts pulse inputs for time on per one pulse or multiple pulses.
- Accepts 4-20mA & 0-10VDC signal for external interval percentage control.
- No special input wiring connectors to buy.
 Digital interval timer results in a high
- frequency of small injections per minute.

FLEXFLO® A-100NV DIGITAL VARIABLE SPEED

- > Manual or Automatic control.
- Accepts 4-20mA, 0-10VDC, and pulse input signals.
- 1 amp alarm output relay.
- Precise output control with digital touch-pad and LCD display.
- Easy-to-read Service and Alarm indicator icons on LCD display.
- Display motor speed or input signal values on the LCD display.
- Flow Verification Sensor (FVS) compatible.
- > Variable speed results in near continuous injection.

FLEXFLO[®] A-100NF - VARIABLE SPEED UNIT with Percentage Speed Control

A-100N

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LEXFLO[®]A-100NV - VARIABLE SPEED UNI with 4-20mA, 0-10dc, and Pulse Input Speed Control Enertek Louretek

2330 NW 102nd Ave Unit # 3 Doral, FL 33172

FLEXFLO[®] A-1600 simple and efficient

FLEXFLO® A-1600 BENEFITS

- Basic design that is efficient and
- economical.No valves to clog in the pump head.
- Self priming against maximum line pressure.
- De-gassing design eliminates gas or air
- accumulation in the head.
 Output amount is not effected by changes
- in back pressure.Clear pump head cover allows viewing of
- pump operation.> OEM design modifications.

FLEXFLO® A-1600 APPLICATIONS

- Pool and Spa chlorine and acid injection.
- Automatic PH control systems.

A-1600 SPECIFICATIONS

Max. Working Pressure	25 PSI (1.7 bar)
Max. Fluid Temperature	
Ambient temp range	14° to 110° F (-10° to 43° C)
Max. viscosity	500 Centipoise
Max. suction lift	10 ft. Water
Duty cycle	Continuous
Turndown ratio	Not adjustable
Amperage draw	115V/60Hz starting .74 / running .45
	230V/60Hz starting .36 / running .21
	220V/50Hz starting .31 / running .19
	24V/60Hz starting 3.4 / running 2.0
Dimensions	4-3/4" H x 10" W x 6-1/4" D
Annual Chinaina Wainha	0 () () () ()

Approx. Shipping Weight 8 lb. (3.6 kg)



The all New FLEXFLO® Polymer Pump has been designed to handle polymer liquids used in Wastewater Treatment.

The FLEXFLO® peristaltic metering pump has our exclusive built in TFD+ (Tube Failure Detection Plus) system which detects oil and water based polymers, and in turn helps to eliminate costly polymer spills and clean up. Condensation and wash down procedures will not cause false triggering.

Because of the peristaltic design, the FLEXFLO® Polymer Pump has no valves that can clog and thus require maintenance. The FLEXFLO® Peristaltic Polymer Pump is also self-priming even against maximum line pressure, and won't lose prime.

ALL FLEXFLO® POLYMER PUMPS FEATURE

- > New TFD+ works with oil and water based polymers.
- > Gentle pumping action for long chain polymers.
- Ideal for low and high viscosity fluids.
- Equipped with polymer compatible tubing.
- Self priming even against maximum line pressure. By-pass valves are not required. Cannot vapor lock or lose prime.
- > Outputs to 5.17 GPH (19.56 LPH).
- > Output pressures to 65 PSI (4.5 bar).
- > Output volume is not effected by changes in back pressure.
- Two pump tubes supplied with each pump. No extra > tubing required.
- Durable housing of chemical resistant Valox (PBT) thermoplastic.

FLEXFLO® A-100NFP ANALOG VARIABLE SPEED

- Built-in Tube Failure Detection Plus system (TFD+). Senses chemical in the pump head, shuts off the pump and activates an NPN open collector output. This feature helps eliminate costly polymer spills and clean-up time.
- > Easy to use dial knob speed adjustment.

FLEXFLO® A-100NVP DIGITAL VARIABLE SPEED

- Built-in Tube Failure Detection Plus system (TFD+). Senses chemical in the pump head, shuts off the pump and activates a 1 amp alarm relay (dry contact closure). This feature helps eliminate costly polymer spills and clean-up time.
- Accepts 4-20mA, 0-10Vdc, and Pulse inputs for manual or external speed control.
- Operator friendly digital touch pad.
 - Easy to read LCD display
 - Service and Alarm indicator icons.
 - · Display motor speed or input signal values. Prime mode for easy priming without

A-100NFP & A-100NVP SPECIFICATIONS

changing programming.





with 4-20mA, 0-10dc, and Pulse Input Speed Control

A-100NFP & A-100NVP ORDERING GUIDELINES

ax. Flow Rate 5.17 GPH (19.56LPH)	Power cord plug type115V/60Hz = NEMA 5/15 (USA)						PUMP OUTPUT CO	
ax. Working Pressure	230V/60Hz = NEMA 5/15 (USA)			MAX	PUMP TUBE	PUMP TUBE	A-100NFP	A-100NVP
ax. Fluid Temperature	220V/50Hz = CEE 7/VII (EUROPE)	FEED RATE	RPM	PSI (BAR)	PART NUMBER	MATERIAL	MODEL #	MODEL #
mbient Temp Range14° to 110°F(-10° to 43°C)	240V/50Hz = AS 3112 (Australia/New Zealand)	0.8-15 ML/min	14	65 (4.5)	A1-1T	Flex-A-Thane [™]	A1NO*F-1T-P	A1NO*V-1T-P
100NFP Output Adjustment Range	Injection Fitting O-ring Seals FKM and TFE/P (Optional EP)	1.8-35 ML/min	30	65 (4.5)	A1-1T	Flex-A-Thane™	A1N1*F-1T-P	A1N1*V-1T-P
10-100% in 1% increments	Enclosure NEMA 3R, (IP23)	6.7-67 ML/min	60	65 (4.5)	A1-1T	Flex-A-Thane [™]	A1N3*F-1T-P	A1N3*V-1T-P
100NVP Output Adjustment Range	Dimensions A-100NFP=6"H x 9-3/8"W x 9-1/8"D	14.0–140 ML/min	60	65 (4.5)	A1-2T	Flex-A-Thane™	A1N3*F-2T-P	A1N3*V-2T-P
14 & 30 RPM with -11, -2T tubes: . 5-100% (20:1 turndown)	A-100NVP=6"H x 9-1/2"W x 9-1/8"D	26.1–261 ML/min	45	50 (3.5)	A1-3T	Flex-A-Thane™	A1N2*F-3T-P	A1N2*V-3T-P
All other models:	Approx. Shipping Weight	32.6-326 ML/min	60	50 (3.5)	A1-3T	Flex-A-Thane™	A1N3*F-3T-P	A1N3*V-3T-P
ax. Viscosity5,000 Centipoise		VOLTAGE OPTIONS		(/				
av Custion Life 20 ft Water Opein		VULIAGE UPTIUNS						

(*)Replace: 0=115V/60Hz, 1=220V/50Hz, 2=230V/60Hz, 8=240V/50Hz



	10-100% in 1% increments
A-100NVP Output Adjustment Ra	
14 & 30 RPM with -11, -2T tubes:	. 5-100% (20:1 turndown)
All other models:	. 10-100% (10:1 turndown)
Max. Viscosity	.5,000 Centipoise
Max. Suction Lift	. 30 ft. Water 0 psig
Duty Cycle	. Continuous
Max. Solids	.50% by volume
Amperage Draw	.115V/60Hz, 1ph (A-100NFP=
	230V/60Hz, 1ph (A-100NFP
	220V/50Hz, 1ph (A-100NFP

increments	Enclosure	NEMA 3R, (IP23)
	Dimensions	A-100NFP=6"H x
urndown)		A-100NVP=6"H x
turndown) se psig	Approx. Shipping Weight	12 lb. (5.4 kg)
	; A-100NVP=.350 amp max) 3; A-100NVP=.173 amp max)	

220V/50Hz, 1ph (A-100NFP=.660; A-100NVP=.175 amp max) 240V/50Hz, 1ph (A-100NFP=.585; A-100NVP=.193 amp max)

Max Max Max

MICRO-FLO FLOW VERIFICATION SYSTEM

EASY ACCESS TO CRITICAL FLOW DATA

ARE YOU CERTAIN THE PUMP IS ACTUALLY PUMPING? An empty chemical tank, clogged injection fitting, lost prime, and other problems can prevent a metering pump from actually injecting chemical – even though the pump is in good working condition.

THIS INNOVATIVE PRODUCT is designed to be used with your metering pump to provide accurate Flow Measurement and Accumulated Flow Data. KNOW how much chemical your metering pump is dispensing. The MICRO-FLO may beinstalled directly into the pumps discharge tubing, inline in the system after the pump, or conveniently mounted to a panel.

THE MICRO-FLO MODEL FV FLOW VERIFICATION SENSOR can be connected directly to Blue-White® model A-100NV and C-1100V metering pumps and verify that chemical injection has actually occurred. The pump's sophisticated electronics constantly monitor the sensor. If chemical should fail to inject, the pump will stop and an alarm relay will close, allowing for remote alarm indication or initiation of a back-up injector pump.

For Innovation, Accuracy and Dependable Service, count on Blue-White's MICRO-FLO VERIFICATION METER.

MICRO-FLO BENEFITS

- Model Variations include: Sensor Only; and Panel Mount Display, which includes 6' of Cable.
- > Six Digit LCD, up to Four decimal positions.
- Displays both Rate of Flow and Accumulated Flow.
- Non-volatile programming and accumulated flow memory.
- User Selectable scale factors include: Flow units: Gallons; Liters; Ounces; Milliliters Time units: Minutes; Hours; Days
- Clear PVC viewing lens or opaque PVDF chemical resistant lens .
- Weather resistant Valox PBT enclosure.
- LCD is not recommended for direct sunlight installation.

MICRO-FLO SPECIFICATIONS

Max. Working Pressure	PVC lens: 130 psig (9 bar) @ 70°F (21°C)	
	PVDF lens: 150 psig (10 bar) @ 70°F (21°C)	
Max. Fluid Temperature	PVC lens, and connectors: 130°F (54°C) @ 0 P	SI
	PVDF lens, and connectors: 200°F (93°C) @ 0	PSI
Body, Paddle, Axle Material	PVDF	
Connector Material	3/8" Tubing connectors: PVDF	
0-ring Seals	FKM	
Compression Seal to Pump	PVC	M
Approx. Shipping Weight	1 lb. (.45 kg)	SENSO

MICRO-FLO SENSOR - FV-100-6V MOUNTED ON A-100NV

MICRO-FLO ORDERING GUIDELINES

MODEL	OPERATING FLO	W RANGE C-1100	OPERATING FLO	W RANGE A-100N
NUMBER	GPD	ML/MIN	GPD	ML/MIN
FV-10*-6V	11.4 to 114	30 to 300	1 to 7	30 to 200
FV-20*-6V	38.0 to 380	100 to 1000	1.8 to 31.8	50 to 900
FV-30*-6V	76.0 to 760	200 to 2000	3.5 to 63.5	100 to 1800
FV-40*-6V	114 to 1440	300 to 3000	10 to 100	300 to 3000
FV-50*-6V	190 to 1900	500 to 5000	17 to 170	500 to 5000
FV-60*-6V	266 to 2660	700 to 7000	24 to 240	700 to 7000
(*) Replace: 0	= PVC LENS CAP	1 = PVDF I FNS CAP		

12

2330 NW 102nd Ave Unit # 3 Doral, FL 33172 **Environmental Global Solutions**

305.909.7860

MICRO-FLO SENSOR FV-200-6V

Installation Examples

MICRO-FLO SENSOR - FV-200-6V MOUNTED ON C-1100V

MICRO-FLO SENSOR FS-100-3V

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ACRYLIC VARIABLE AREA FLOWMETERS

THE F-400 SERIES OF IN-LINE UNITS

F-400N

LPN

F-400N BENEFITS

- > Tough machined acrylic meter body, highly polished to a clear finish. Annealed for added strength.
- > Direct reading permanent scale.
- White back reflector for easy reading. Sturdy adapters with high grade FKM o-ring seals.
- Standard models #316 stainless steel float guide rods. >
- (Optional K-series hastelloy C-276).
- Standard models #316 stainless steel, PVDF, PTFE float. (Optional K-series hastelloy C-276, PVDF, PTFE).
- Acceptable in direct sunlight applications. > Available OEM options: Private labeling, custom
- calibrations, custom materials.
- Models available for use with liquid.

F-400N SPECIFICATIONS

Max. Working Pressure 150 psig (10.3 bar) @ 70° F (21° C) Max. Fluid Temperature Polypropylene adapters: 150° F (65° C) @ 0 PSI Full scale accuracy . +/- 5% Meter body material Machined acrylic 0-ring seals . FKM (optional EP) Approximate shipping wt. .. 1/2 lb. (.23 kg)

F-400N

F-420N

F-420

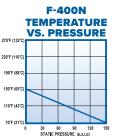
LPM

10(

PIPE SIZES 1/4", 3/8" and1/2" F/NPT **FLOW RATES** 0.025 to 5 GPM

NIST certificates optional

0.1 to 20 LPM DIMENSIONS Height: 8-3/16" Width: 1-1/4"



F-420N

F-420N BENEFITS

- Tough machined acrylic meter body, highly polished to a clear finish. Annealed for added strength.
- Direct reading permanent scale.
- White back reflector for easy reading.
- > Sturdy adapters with high grade FKM o-ring seals.
- Standard models #316 stainless steel float guide > rods. (Optional K-series hastelloy C-276).
- Acceptable in direct sunlight applications.
- Available OEM options: Private labeling, custom calibrations, custom materials.

F-420N SPECIFICATIONS

Max. Working Pressure 130 psig (8.9 bar) @ 70° F (21° C) Max. Fluid Temperature 130° F (54° C) @ 0 PSI

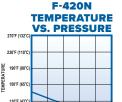
Full scale accuracy .. +/- 5% Meter body material. Machined acrylic 0-ring seals.. . FKM (optional EP) Approximate shipping wt. ... 2 lb. (.91 kg) NIST certificates optional

PIPE SIZES

1" F/NPT and 1-1/2" M/NPT FLOW RATES

5 to 50 GPM 20 to 200 LPM DIMENSIONS

Height: 12" Width: 2"



30 60 STATIC PRESS

70°E (21



410N BENEFITS

- Tough machined acrylic meter body, highly polished to a clear finish. Annealed for added strength.
- > Direct reading permanent scale.
- > White back reflector for easy reading.
- Sturdy adapters with high grade FKM o-ring seals. Standard models #316 stainless steel float guide rods. (Optional K-series hastelloy C-276)
- Standard models #316 stainless steel or PVC float. (Optional K-series hastelloy C-276 or PVC).
- Acceptable in direct sunlight applications.
- Available OEM options: Private labeling, custom > calibrations, custom materials.
- Models available for use with liquid.

F-410N SPECIFICATIONS

Max. Working Pressure 150 psig (10.3 bar) @ 70° F (21° C) 316 SS and Hastelloy Floats: 150° F (65° C) @ 0 PSI Max. Fluid Temperature ... PVC floats:120° F (49° C) @ 0 PSI

Meter body material O-ring seals Approximate shipping wt NIST certificates optional	Machined acrylic FKM (optional EP)
PIPE SIZES 3/4" and 1" F/NPT	270'F (132'C)
	230'F (110'C)





F-410N

F-410



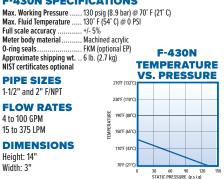
F-430N

Height: 11"

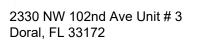
F-430N BENEFITS

- Tough machined acrylic meter body, highly polished to a clear finish. Annealed for , added strength.
- > Direct reading permanent scale.
- White back reflector for easy reading.
- Sturdy adapters with high grade FKM o-ring seals.
- Standard models #316 stainless steel float guide
- rods. (Optional K-series hastelloy C-276).
- calibrations, custom materials.
- Optional Polypropylene and CPVC Adapters available.

F-430N SPECIFICATIONS







305.909.7860

30 60 STATIC PRESS URE (p.s.i.g

F-410N

TEMPERATURE

VS. PRESSURE

- Acceptable in direct sunlight applications.
- Available OEM options: Private labeling, custom



F-550 SERIES MACHINED PANEL MOUNT METER



F-550 BENEFITS

- Durable, highly polished, one piece machined meter body. Annealed for added strength. ≻
- #316 Stainless Steel floats and float guides. >
- ≻ Sturdy adapters with FKM O-ring seals. EP O-rings optional.
- Bulkhead nuts attach directly to inside panel. >
- > Separate mounting screws are not required.
- Optional Adjustable Flow Control Valve (F-550A ≻ only) easy to disassemble. No special tool required, ALL FIELD REPLACEABLE.
- Acceptable in direct sunlight applications.
- Models available for use with liquid.

F-550 SPECIFICATIONS

Pressure	
Temperature	
Full Scale Accuracy	± 5%
Meter Body Material	Machined acrylic
Adapter Material	Polypropylené
0-rings	FKM (Optional EP)
Float Material	
Approximate Shipping	Wt 2 lbs. (.907 kg.)

F-550 ORDERING GUIDELINES

NI AD ILICTADI E & ADUCTADI E Value

with NON-ADJUSTABLE & ADUSTABLE Valves						
MODEL	CALIBRATION		ADAPTER	FLOAT		
NUMBER	GPM	LPM	SIZE	MATERIAL		
F-55250L(*)	0.025 to 0.250) 0.1 to 1	1/4" M/NPT	#316 SS		
F-55375L(*)	0.1 to 1	0.4 to 4	3/8" M/NPT	#316 SS		
F-55375L(*)-BRB	0.1 to 1	0.4 to 4	1/2" BARB	#316 SS		
F-55376L(*)	0.2 to 2	0.75 to 7.5	3/8" M/NPT	#316 SS		
SSF-55376L(*)-BRB	0.2 to 2	0.75 to 7.5	1/2" BARB	#316 SS		
F-55500L(*)	0.5 to 5	2 to 20	1/2" M/NPT	#316 SS		
F-55500L(*)-BRB	0.5 to 5	2 to 20	1/2" BARB	#316 SS		
F-55750L(*)	1 to 10	4 to 40	3/4" M/NPT	#316 SS		
F-55005L	1 to 5	3 to 18	1" M/NPT	PTFE		
F-55010L(*)	1 to 10	4 to 40	1" M/NPT	#316 SS		
F-55015L(*)	1 to 15	5 to 60	1" M/NPT	#316 SS		
F-55200L(*)	2 to 20	7.5 to 75	1" M/NPT	#316 SS		
MODEL OPTIONS						

F-550 NON-ADJUSTABLE DIMENSIONS

Model Number	Α	В	С	D	E	Mount Hole
F-55250L (1/4")	7-1/4"	2-1/2"	11/16"	5-5/8"	1-1/4"	9/16"
F-55375L (3/8")	8-3/8"	2-3/4"	1-11/32"	6-1/2"	1-1/2"	1-1/16"
F-55376L (3/8")	8-3/8"	2-3/4"	1-11/32"	6-1/2"	1-1/2"	1-1/16"
F-55500L (1/2")	8-3/8"	2-3/4"	1-11/32"	6-1/2"	1-1/2"	7/8"
F-55750L (3/4")	9"	3-3/4"	1-1/2"	6-1/2"	1-3/4"	1-1/16"
F-55200L (1")	10-5/8"	4"	1-3/4"	8"	2"	12-1/64"

F-550 ADJUSTABLE DIMENSIONS

Model Number	Α	В	C	D	E	F
F-55250LA (1/4")	7-1/4"	3-7/16"	1"	5-5/8"	2-7/16"	1-11/32"
F-55375LA (3/8")	8-3/8"	4-1/2"	1-11/32"	6-1/2"	3-1/4"	1-3/4"
F-55376LA (3/8")	8-3/8"	4-1/2"	1-11/32"	6-1/2"	3-1/4"	1-3/4"
F-55500LA (1/2")	8-3/8"	4-1/2"	1-11/32"	6-1/2"	3-1/4"	1-3/4"
F-55750LA (3/4")	9"	5-1/2"	1-1/2"	6-1/2"	3-1/4"	1-5/16"
F-55200LA (1")	10-5/8"	5-1/4"	1-3/4"	8"	3-1/2"	1-7/16"
Note: Mount Hole Di	imensions are	the same a	s the Model N	lon-Adjusta	ble	

PIPE SIZES

1/4", 3/8, 1/2", 3/4" and 1" M/NPT. 1/2" Barb



ue-White

H 80 SCH 4

70

120

100

80

20

18

U-300

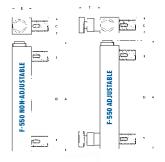
S. GPM

FLOW

L2

F-300

Max. 75 PSI



Blue-White

U-300

LPM

350

300

250

200

150

100

1.5

at Te

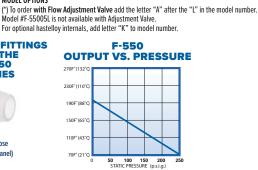
FLOW

GPM

100

F-550A WITH INTEGRAL FLOW ADJUSTMENT VALVE







F-300 BENEFITS

- NSF listed*.
- > No metal in the fluid.
- > Horizontal or Vertical pipe installation.
- > One piece machined acrylic meter body.
- Corrosion resistant internal parts.
- > Ships with gasket seal and mounting clamps.
- > Calibrated for use on PVC or Copper Pipe.
- * Most models.

F-300 SPECIFICATIONS

Max. Working Pressure 75 Max. Fluid Temperature 19	
Accuracy±	5% for 1", 1-1/2", 1-1/4" and 2"
	10% for 2-1/2", 3", 4", 6"
Meter Body Material Ad	crylic
Connection Type Sa	addle
Float Material P	VDF
Gaskett MaterialN	eoprene
Max. Pressure Drop0	psi
Approx. Shipping Weight 1"	' to 4" Pipe: 1 lbs. (.454 kg.)
	" to 8" Pipe: 2 lbs. (.907 kg.)

RE-ENGINEERED: Now with even better accuracy, and we've kept the Classic

BETTER FLOAT STABILITY: No bounce.

2-1/2" through 6" = ±10% of rate.

Look including the Signature Red Cap.

NEW PITOT TUBE DESIGN: For smooth fluid flow.

IMPROVED ACCURACY: 1" through 2" = ±5% of rate,

- ermanent printing.
- DUAL SCALE: Dual Scale now reads in SCH 40 and SCH 80. ADDITIONAL ACCESSORY: Optional flow switch can be
- ordered separately for alarm feedback.
- **I.P.S. PIPE SIZES** 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4", 6", 8"

FLOW RATES 5 to 1900 U.S. GPM 20 to 7200 LPM

14 2330 NW 102nd Ave Unit # 3 Doral, FL 33172

REDUCED SPACE NEEDED: You only need half the previous requirement of straight pipe length.
NEW RED FLOAT: Plastic will never corrode.
EASY READING: Bold, black, permanent printing. Large distance between lines

POLYSULFONE VARIABLE AREA FLOWMETERS

F-440 SERIES COMPACT SIZE. BIG PERFORMANCE.

F-440 BENEFITS

- > Adjustable Flow Indicating Marker.
- > Enginneered with large half union connections.
- Oversized o-rings for Superior seal.
- > All wetted parts are PVDF or Polypropylene. Tough Polysulfone meter body resists high
- temperatures and pressures.* Compact size for tight installation spaces.
- > 2" scale length (approximate).
- > Direct reading permanent scale.
- In-line or Panel mount configurations available.
- Optional Integral Flow Adjustment Valve. > Available OEM options: Private labeling, custom calibrations, custom materials.
- Standard models have #316 Stainless Steel, PTFE or PVC float. (Optional K-series Hastelloy C-276 or PVC).
- > Not recommended for direct sunlight.
- Solarmeter[®] units available with in-line Brass > adapters. Contact factory for more information.

I. LPN

MOUNT

F-45750LE-12 PANEL

F-440 SPECIFICATIONS

F 450 LPN

IN-LINE UNIT

F-45750L-12

Max. Working Pressure 175 psig (10.3 bar) @ 70°F (21°C)

Max. Fluid Temperature	
Standard Models	
Solarmeter® Models	240°F (115°C) @ 0 PSI
Full Scale Accuracy	+/- 4%
Meter Body Material	Polysulfone
Adapter Material	Polysulfone (optional Brass)
O-Ring Material	FKM (optional EP)
Approx. Shipping Weight	1/2lb. (.23 kg)

F-440 ORDERING GUIDELINES

MODEL	Pipe Size	DUAL SCA	LE RANGE	Float
NUMBER	M/NPT	GPM	LPM	Material
F-44250(*)-6	3/8"	.025 to .250	0.1 to 1.0	PVDF
F-44250(*)-8	1/2"	.025 to .250	0.1 to 1.0	PVDF
F-44375(*)-6	3/8"	0.1 to 1.0	0.4 to 4.0	316 SS
F-44375(*)-8	1/2"	0.1 to 1.0	0.4 to 4.0	316 SS
F-44376(*)-6	3/8"	0.2 to 2.0	0.8 to 8.0	316 SS
F-44376(*)-8	1/2"	0.2 to 2.0	0.8 to 8.0	316 SS
F-44500(*)-6	3/8"	0.5 to 5.0	1.8 to 18.0	316 SS
F-44500(*)-8	1/2"	0.5 to 5.0	1.8 to 18.0	316 SS
F-44750(*)-8	1/2"	1.0 to 10.0	5.0 to 37.5	316 SS
F-44750(*)-12	3/4"	1.0 to 10.0	5.0 to 37.5	316 SS
		GPH	LPH	
F-44330(*)-6	3/8"	3.0 to 30.0	10 to 110	PTFE
F-44330(*)-8	1/2"	3.0 to 30.0	10 to 110	PTFE
F-44560(*)-6	3/8"	5.0 to 60.0	20 to 220	316 SS
F-44560(*)-8	1/2"	5.0 to 60.0	20 to 220	316 SS
MODEL Variatio	ons			
*L = In-Line Mo	del is listed	*LK = Ir	-Line K-Series - s	specially

*L = In-Line Model is listed *LE = Panel Mount Model *LA = Adjustable Model

equipped units for liquid (highly corrosive) *LKE = Panel Mount K-Series *LKA = Adjustable K-Series

PIPE SIZES Standard Models: 3/8" F/NPT; 1/2", 3/4" M/NPT Solarmeter[®] Models: 3/8" F/NPT, 1/2" or 3/4" M/NPT, and 1/2" or 3/4" SWEAT in-line fittings

FLOW RATES

0.025 to 10 U.S. GPM 0.1 to 37.5 LPM 3 to 60 GPH 10 to 220 LPH



F-450N SERIES PERFORMANCE AND VERSATILITY

F-450N BENEFITS

- > Adjustable Flow Indicating Marker.
- Enginneered with large half union connections.
- > Oversized o-rings for Superior seal.
- All wetted parts are PVDF or Polypropylene.
- Tough Polysulfone meter body resists high temperatures and pressures.
- 4" approximate scale length for easy reading.
- > Direct reading permanent scale.
- > In-line or Panel mount configurations available.
- > Optional integral flow adjustment valve.
- > Standard models have #316 Stainless Steel or PTFE float. (Optional K-series Hastelloy C-276 or PTFE).
- Available OEM options: Private labeling, custom calibrations, custom materials.
- > Not recommended for direct sunlight.
- Solarmeter® units available with in-line Brass adapters. >
- Contact factory for additional information.
- Models available for use with liquid.

F-450N SPECIFICATIONS

70°F (21°C)

Max. Working Pressure	. 1/5 psig (10.3 bar) @ 70 F (21
Max. Fluid Temperature	
Standard Models	. 212°F (100°C) @ 0 PSI
Solarmeter® Models	240°F (115°C) @ 0 PSI
Full Scale Accuracy	+/- 4%
Meter Body Material	Polysulfone
Adapter Material	Polysulfone (optional Brass)
0-Ring Material	FKM (Optional EP)
Max. Pressure Drop	2 psi
Approx. Shipping Weight	1/2lb. (.23 kg)

F-450N ORDERING GUIDELINES

STANDARD LIQ MODEL	VID MODELS Pipe	DUAL SCA	Float	
NUMBER	Size	GPM	LPM	Material
F-45375(*)-6	3/8" F/NPT	.1 to 1	.4 to 4	PTFE
F-45375(*)-8	1/2" M/NPT	.1 to 1	.4 to 4	PTFE
F-45376(*)-6	3/8" F/NPT	.2 to 2	1 to 7.5	316 SS
F-45376(*)-8	1/2" M/NPT	.2 to 2	1 to 7.5	316 SS
F-45500(*)-6	3/8" F/NPT	.5 to 5	2 to 20	316 SS
F-45500(*)-8	1/2" M/NPT	.5 to 5	2 to 20	316 SS
F-45500(*)-12	3/4" M/NPT	.5 to 5	2 to 20	316 SS
F-45750(*)-12	3/4" M/NPT	1 to 10	4 to 40	316 SS
MODEL Variatio				

*LE = Panel Mount Model

*LK = In-Line K-Series - specially equipped units for liquid (highly corrosive) *LKE = Panel Mount K-Series

PIPE SIZES Standard Models: 3/8" F/NPT; 1/2", 3/4" M/NPT Solarmeter[®] Models: 1/2", 3/4" M/NPT; 1/2",

3/4" SWEAT in-line only.

FLOW RATES

0.1 to 10 GPM 4 to 40 LPM

* The factory does not guarantee their flowmeters for use with liquids other than water. Customers are required to do their own compatibility testing



2330 NW 102nd Ave Unit # 3 Doral. FL 33172

Environmental Global Solutions

- - - MODEL Variations *L = In-Line Model is listed

*LA = Adiustable Model

*LKA = Adjustable K-Series

F-460 & F-461 SERIES FOR ULTRA PURE & CORROSIVE ENVIRONMENTS



- > Polysulfone meter body with precisely engineered float guide ribs.
 - No metal in the fluid path.
- Direct reading permanent scale.
- Ideal for corrosive environments* such as Deionized Water or other applications where an all plastic meter is desirable.
- Available OEM options: Private labeling, special calibrations and alternate materials.
- Not recommended for direct sunlight.

F-460 & F-461 SPECIFICATIONS

Max. Working Pressure 150 psig (10.3 bar) @ 70°F (21°C) Full Scale Accuracy

F-461 PIPE SIZES

F-461 FLOW RATES

1" F/NPT and 1" Socket Fusion

Meter Body Material Polysulfone Float Material PTÉF

O-ring Seals... FKM

Max. Pressure Drop 2 psi

Approx. Shipping Weight F-460 = 1 lb. (.45 kg), F-461 = 3 lb. (1.4 kg)

F-460 PIPE SIZES

1/2" and 3/4" F/NPT 1/2" and 3/4" Socket Fusion **F-460 FLOW RATES** 0.1 to 5.0 U.S. GPM

0.4 to 20 LPM **F-460 DIMENSIONS** Height: 10' Width: 1-3/4"

F-461 DIMENSIONS Height: 15" Width: 2-3/4"

1 to 35 GPM

4 to 130 I PM

Butt Fusion & Socket Fusion Fittings

AVAILABLE FOR F-460, F-461, AND F-462 Polypropylene or PVDF Butt Fusion & Socket Fusion Fittings for ULTRA PURE APPLICATIONS

F-462 with Rib Guided Float **HIGH CAPACITY.** TOP PERFORMANCE.

F-462 ORDERING GUIDELINES

STANDARD F-462 LIQUID MODELS with 2" F/NPT Adapters						
MODEL	Pipe	DUAL SC	ALE RANGE	Adapter	Float	
NUMBER	Size	GPM	LPM	Material	Materia	
F-462200LX-32H	2" F/NPT	2 to 20	8 to 80	Polysulfone	PTFE	
F-462500LX-32H	2" F/NPT	5 to 50	20 to 200	Polysulfone	PTFE	
F-462800LX-32H	2" F/NPT	8 to 80	30 to 300	Polysulfone	PTFE	

STANDARD F-462 LIQUID MODELS with 2"Socket Fusion Adapters							
MODEL	Pipe		ALE RANGE	Adapter	Float		
NUMBER	Size	GPM	LPM	Material	Material		
F-462200LX-33G	2" S.F.	2 to 20	8 to 80	Polypropylene	PTFE		
F-462500LX-33G	2" S.F.	5 to 50	20 to 200	Polypropylene	PTFE		
F-462800LX-33G	2" S.F.	8 to 80	30 to 300	Polypropylene	PTFE		
F-462200LX-33K	2" S.F.	2 to 20	8 to 80	PVDF	PTFE		
F-462500LX-33K	2" S.F.	5 to 50	20 to 200	PVDF	PTFE		
F-462800LX-33K	2" S.F.	8 to 80	30 to 300	PVDF	PTFE		

STANDARD F-462 LIQUID MODELS with 63mm Butt Fusion Adapters

MODEL	Pipe	DIIAI SC	ALE RANGE	Adapter	Float	
NUMBER	Size	GPM		Material	Material	
F-462200LX-34G	63mm B.F.	2 to 20	8 to 80	Polypropylene	PTFE	
F-462500LX-34G	63mm B.F.	5 to 50	20 to 200	Polypropylene	PTFE	
F-462800LX-34G	63mm B.F.	8 to 80	30 to 300	Polypropylene	PTFE	
F-462200LX-34K	63mm B.F.	2 to 20	8 to 80	PVDF	PTFE	
F-462500LX-34K	63mm B.F.	5 to 50	20 to 200	PVDF	PTFE	
F-462800LX-34K	63mm B.F.	8 to 80	30 to 300	PVDF	PTFE	
MODEL Variation	s					

Polycarbonate shield = add the letter "C" to the end of the model number. PVĆ Union Nuts = replace "X" with "P"

F-460 & F-461 **ORDERING GUIDELINES**

TANDARD F-460		DFLS with F/NP	T Adapters
IODEL	Pipe	DUAL SCA	
UMBER	Size	GPM	LPM
-46010LX-08(*)	1/2"	0.1 to 1.2	0.4 to 4.4
-46010LX-12(*)	3/4"	0.1 to 1.2	0.4 to 4.4
-46020LX-08(*)	1/2"	0.2 to 2.0	0.8 to 8.0
-46020LX-12(*)	3/4"	0.2 to 2.0	0.8 to 8.0
-46030LX-08(*)	1/2"	0.3 to 3.0	1.0 to 11
-46030LX-12(*)	3/4"	0.3 to 3.0	1.0 to 11
-46050LX-08(*)	1/2"	0.5 to 5.0	2.0 to 20
-46050LX-12(*)	3/4"	0.5 to 5.0	2.0 to 20

STANDARD F-461 LIQUID MODELS with F/NPT Adapters

MODEL	Pipe	DUAL SCALE RANGE		
NUMBER	Size	GPM	LPM	
F-461100LX-16(*)	1"	1 to 10	to 40	
F-461200LX-16(*)	1"	2 to 20	5 to 75	
F-461300LX-16(*)	1"	3 to 35	12 to 130	

MODEL Variations *P= PVC Adapter

*K = PVDF Adapter

PVC Union Nuts = replace "X" with "P" Contact factory for Socket Fusion Models

F-462 BENEFITS

F-461

Blue-White

-

70

65

60

55

50

45

40

35

30

25

20

15

- > Polysulfone meter body with precisely engineered float guide ribs.
- > No metal in the fluid path.
- > Direct reading permanent scale.
- Ideal for corrosive environments* such as Deionized Water or other applications where an all plastic meter is desirable.
- Available OEM options: Private > labeling, special calibrations and alternate materials.
- Not recommended for direct sunlight.

F-462 SPECIFICATIONS

Max. Working Pressure	
•	@ 70°F (21°C)
Max. Fluid Temperature	. 200°F (93°C) @ 0 PSI
Full Scale Accuracy	. +/- 2-1/2%
Meter Body Material	. Polysulfone
Float Material	. PTÉE
O-ring Seals	. FKM (Optional EP)
Max. Pressure Drop	. 2 psi
Approx. Shipping Weight	

PIPE SIZES FLOW RATES 2 to 80 GPM

2" F/NPT, 2" Socket Fusion, 63mm Butt Fusion

16

Doral. FL 33172



8 to 300 LPM

2330 NW 102nd Ave Unit # 3

Environmental Global Solutions

	Width: 2-				61 (0)	1			
	I	2			Blue-Whit				1
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	on F	itting	S		. ==				-
60	, F-46 1	1, AND F	-462		20	89			
		& Socket F	usion		2	<u>60</u>		Blue-White	
PUF	RE APPL	ICATIONS			⁶⁵ 2	40		GPM LPM	
					<u>60</u> 2	20			
					35 2	00		73 280	
					50			70 200	
					45	89		65 240	
					40	<u>60</u>		<u>60</u>	
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	2" F/NPT Ac						4	= 100	
UAL SC	ALE RANGE	Adapter	Float		10		Ë,	0	2
РМ 5 20	LPM	Material	Material PTFE		Rest Float at Ter	11	ž	00	F-462
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080	30 to 300	Polysulfone	PTFE		"The Blag-White it	1883	F-462 WITH POLYCARBONATE PROTECTIVE SHIELD	15	
		usion Adapters				1880	ž	10	
UAL SC PM	ALE RANGE LPM	Adapter Material	Float Material		1000	122	ğ	And the set of the	
0 20	8 to 80	Polypropylene	PTFE		A STATE	1 Barris	а Т	-Liquid - Rp. Go. 1.8	
o 50	20 to 200	Polypropylene	PTFE		C. C	a constant of	Ē	Made in USA	
o 80 o 20	30 to 300 8 to 80	Polypropylene PVDF	PTFE PTFE		Call In the second	-	2		
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o 80	30 to 300	PVDF	PTFE		100		ú.	ALC: UNKNOWN	
with	63mm Butt	Fusion Adapter	s		and the second	1			
UAL SC PM	ALE RANGE LPM	Adapter Material	Float Material						
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50		Polypropylene	PTFE		11	11	614		7 10
080	30 to 300	Polypropylene	PTFE			TR	1	HALE AND AND A	11
o 20 o 50	8 to 80 20 to 200	PVDF PVDF	PTFE PTFE	-	MANALA	D	1 mar		ST.
5 80 5 80	30 to 300	PVDF	PTFE		WITHE				
					- IIIn PA	ni F	1 L		1
	to the end of	the model numb	er.						
P"									
* The	factory does not	guarantee their flow	meters for use wi	th liquids other than	n water. Customers are requ	uired to do their own	compatibility testi	ng. Request Kit #70000-718, at	no charge.

F-460

-White

LPA

11

10

F-460





F-451 WITH PROTECTIVE SHIELD

F-451 SERIES QUALITY. VERSATILITY.

F-451 BENEFITS

- > A Heat and Chemical resistant meter body of injection molded Polysulfone.*
- Floats are #316 S.S. or PTFE, depending on calibration.
- Many calibrations are offered in GPM, LPM, SCFM and M³/hr.
- > Permanent, easy to read screen printed scales.
- > 1" F/NPT Polysulfone adapters, or 1-1/2" PVC adapters (depending on model ordered).
- > FKM O-ring Seals, Optional EP.
- > Accuracy ± 3%.
- > May be ordered with 90° elbow adapters.
- > Available with 1" brass sweat or brass F/NPT adapters.
- > Available with Polycarbonate Protective Shield.
- > Not recommended for direct sunlight applications.
- > Models available for use with liquid.
- > Optional K Series for corrosive applications.

E.4E4 ODDEDING CLUDELINES **PIPE SIZES**

F-451 UK	DEKIN	g guil	JELINES	PIPE SIZES
MODEL NUMBER	CALIBR GPM	ATION LPM	ADAPTER SIZE	1", 1-1/2" F/NPT Brass: 1" F/NPT or Sweat
F-451006LHN F-451001LHN F-451002LHN F-451003LHN F-451003LHN F-451004LHN	0.5 to 6 1.0 to 10 2.0 to 20 3.0 to 30 4.0 to 40	to 22 4 to 40 7.5 to 75 12 to 115 15 to 155	1" F/NPT 1" F/NPT 1" F/NPT 1" F/NPT 1" F/NPT	FLOW RATES 0.5 to 40 GPM 2 to 155 LPM DIMENSIONS
1-1/2" F/NPT PVC MODEL NUMBER			ADAPTER SIZE	Height: 14-1/2" Width: 3-5/16"
F-451006LHN-24 F-451001LHN-24 F-451002LHN-24 F-451003LHN-24 F-451004LHN-24	0.5 to 6 1.0 to 10 2.0 to 20 3.0 to 30 4.0 to 40	to 22 4 to 40 7.5 to 75 12 to 115 15 to 155	1-1/2" F/NPT 1-1/2" F/NPT 1-1/2" F/NPT 1-1/2" F/NPT 1-1/2" F/NPT 1-1/2" F/NPT	

F-451 SPECIFICATIONS

Max. Working Pressure	. 150 psi (10 Bar) @ 70°F (21°C)
Max. Fluid Temperature	Polysulfone adapters: 212°F
	(100°C) @ 0 PSI.
	PVC adapters:130°F (54°C) @ 0 PSI
Full Scale Accuracy	. ± 3%
Meter Body Material	. Polysulfone
Adapter Material	. 1" Polysulfone & 1 1/2" PVC
0-Rings	. FKM (Optional EP)
Float Material	#316 SS, Hastelloy C or PTFE,
	depending on calibration.
Max. Pressure Drop	. 2 psi
Approx. Shipping Weight	. 3 lbs. (1.36 kg.)

Blue-White F-452N LPM 220

> 200 180

160

140

120

F-452N



F-452N BENEFITS

- > One piece Polysulfone meter body resists high temperatures and pressures."
- > 316 Stainless Steel or Hastelloy rod guided float.
- > Direct reading permanent scale.
- > Adapters and unions engineered for maximum protection from misalignment and vibration.
- > Optional Polycarbonate Protective Shield.
- > Available OEM options: Private labeling, custom calibrations and custom materials.
- > Not recommended for direct sunlight.
- > Models available for use with liquid.
- > Optional K Series for corrosive applications.

F-452N SPECIFICATIONS

F-452N SPECIFICATIONS	F-452 OF	DERIN	G GUID	ELINES
Max. Working Pressure 150 psig (10.3 bar) @ 70°F (21°C) Max. Fluid Temperature 212°F (100°C) @ 0 PSI	MODEL NUMBER	DUAL SC/ GPM	ALE RANGE LPM	ADAPTER SIZE
Full Scale Accuracy	F-452020LHN F-452060LHN F-452080LHN F-452100LHN F-452130LHN F-452175LHN	2 to 20 6 to 60 8 to 80 6 to 100 20 to 130 25 to 175	8 to 78 30 to 230 40 to 300 20 to 380 80 to 500 100 to 675	2" F/NPT 2" F/NPT 2" F/NPT 2" F/NPT 2" F/NPT 2" F/NPT 2" F/NPT

PIPE SIZES DIMENSIONS 2" F/NPT

Height: 18-7/8 Width: 4-5/8" **FLOW RATES**

2 to 175 GPM 8 to 675 LPM

* The factory does not guarantee their flowmeters for use with liquids other than water. Customers are required to do their own compatibility testing. Request Kit #70000-718, at no charge.

305.909.7860

BW DIGI-METER®

GALLONS PER M

PADDLEWHEEL FLOWMETERS CHOICE WHEN YOUR APPLICATION REQUIRES AN INNOVATIVE, ACCURATE AND VERSATILE

THE BW DIGI-METER® IS THE METER OF **DIGITAL FLOWMETER.**

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BW DIGI-METER -**PADDLEWHEEL FLOWMETER**

BLUE-WHITE'S CAREFULLY ENGINEERED BW DIGI-METER® F-1000 SERIES INCLUDE PREMIER FEATURES AND PROVIDE OUTSTANDING PERFORMANCE.

Three versions of the BW DIGI-METER® F-1000 are offered. The F-1000RB Unit is a rate meter only; the F-1000TB Unit is a flow totalizer; and the F-1000RT Unit is both a Rate Meter and Flow Totalizer. BW DIGI-METERS are available with a number of configuration and mounting style options. If you don't see the unit that meets your requirements here, please contact our courteous and knowledgeable staff for assistance.

F-1000 BENEFITS

- > Easy to read six digit LCD, up to four decimal positions.
- > Tamper proof.
- Battery operated (2 AAA batteries included)
- > Three model variations:
 - **RB** = RATE ONLY
 - TB = TOTAL ONLY
- RT = RATE & TOTALIZER
- > Total reset function can be disabled.
- > Display update time: Rate 1.5 sec., Total 0.5 sec.
- > Factory calibrated nothing to program.
- > Custom calibration units available. Contact the factory.
- > Weather resistant ABS enclosure. NEMA 4X
- > Calibration Units: GPM, LPM, m3/min, oz/min, GPH,LPH.
- > LCD is not recommended for direct sunlight applications.

F-1000 SPECIFICATIONS

WITH SADDLE MC	UNIBODI
Max. Working Pressure	. 300 psig (20 bar) @ 70° F (21° C)
Max. Fluid Temperature	. 200° F (93° C) @ 0 PSI (all PVDF saddle fittings)
	140° F (60° C) @ 0 PSI (all PVC saddle fittings)
Note: Temperature rating of F-10	00 only. Actual pipe rating may vary.
Full scale accuracy	+/- 2%
Saddle material	. PVDF (1-1/2", 2", 3", 50mm, 63mm, 90mm sizes)
	. PVC (all other sizes)
Sensor/Paddle/Axle material	. PVDF
0-ring seals	. FKM (Optional EP)
Max. pressure drop	. O psi (no significant drop)
Approximate shipping wt	. 2 lb. (.91 kg)
	· •·

WITH SOLVENT WELD **OR STAINLESS STEEL TEE BODY**

Max. Working Pressure	
316 SS Tee fittings	. 300 psig (20 bar) @ 70° F (21° C)
PVC Tee fittings	. 200 psig (13.8 bar) @ 70° F (21° C)
Max. Fluid Temperature	
316 SS Tee fittings	. 200° F (93° C) @ 0 PSI
PVC Tee fittings	. 140° F (60° C) @ 0 PSI
Full scale accuracy	. +/- 2%
Tee material options	. 316 Stainless Steel, PVC
Body, Paddle, Axle material	. PVDF
0-ring seals	. FKM (Optional EP)
Max. pressure drop	. 0 psi (no significant drop)
Approximate shipping wt	. 2 lb. (.91 kg)

WITH MOLDED IN-LINE BODY

Max. Working Pressure Max. Fluid Temperature	300 psig (20 bar) @ 70° F (21° C) 200° F (93° C) @ 0 PSI
Full scale accuracy	
Meter body material	. Polysulfone
Sensor/Paddle/Axle material	PVDF
0-ring seals	FKM (Optional EP)
Max. pressure drop	8 psi (varies per model)
Approximate shipping wt	2 lb. (.91 kg)



BW DIGI-METER® F-1000 WITH MOLDED IN-LINE BODY

BW DIGI-METER® F-1000 WITH SOLVENT TEE BODY PIPE SIZES 1", 1-1/2", 2", 3'

PIPE SIZES 1/4", 3/8", 1/2", 3/4", 1", 2" M/NPT **BW DIGI-METER® E-1000** WITH SADDLE MOUNT **PIPE SIZES** 1-1/2", 2", 2-1/2", 3", 4", 6", 8", 10", 12"

GALLONS PER MI

11.11 GALLONS PER MINUTE Totaliz

Environmental Global Solutions

BW DIGI-METER F-2000 PADDLEWHEEL FLOWMETER

THE THOUGHTFULLY ENGINEERED BW DIGI-METER® F-2000 COMBINE INNOVATIVE FEATURES AND BENEFITS, AND THE FINEST MATERIALS OF CONSTRUCTION TO PROVIDE AN ACCURATE AND VERSATILE DIGITAL FLOWMETER.

If you don't see the unit that matches your requirements listed here, please contact our courteous and knowledgeable staff for assistance.

FOUR MODEL VARIATIONS

- RT = Rate and Totalizer. Transformer or battery operated.
- AO = 4-20mA, 0-10 VDC analog output, flow rate & totalizer. Transformer operated.
- **PC** = Batch processing, flow rate alarm, proportional chemical metering, flow rate and totalizer. Transformer operated.
- **AP** = Analog output, batch processing, flow rate alarm, proportional chemical metering, flow rate and totalizer. Transformer operated.

F-2000 BENEFITS

- > Easy to read 8 digit LCD, up to 4 decimal positions.
- Flow rate and Total flow display.
 AC/DC transformer or battery operated (RT models
- AC/DC transformer or battery operated (RT models only). 4 AA batteries.
- > Factory programmed with calibration certificate.
- Field programmable via front panel touch pad.
- Front panel security lockout.
- Total reset function can be disabled.
- Weather resistant ABS enclosure. NEMA 4X.
 Note: LCD is not recommended for direct sunlight applications.
- > Panel mounting option available.
- Custom calibration units available. Contact the factory.

F-2000 SPECIFICATIONS

WITH SADDLE MOUNT BODY

Max. Working Pressure	. 300 psig (20 bar) @ 70°F (21°C)
Max. Fluid Temperature	. 200°F (93°C) @ 0 PSI
•	(all PVDF saddle fittings)
	(all PVC saddle fittings)
Note: Temperatures rating of F-2	000 only. Actual pipe rating may vary.
Full Scale Accuracy	.+/- 1%
Sensor/Paddle/Axle Material	. PVDF
O-ring Seals	FKM
	. O psi (no significant pressure drop)
Approx. Shipping Weight	

WITH SOLVENT WELD OR STAINLESS STEEL TEE BODY

Max. Working Pressure	
	300 psig (20 bar) @ 70° F (21° C)
PVC Tee fittings	200 psig (13.8 bar) @ 70° F (21° C)
Max. Fluid Temperature	
316 SS Tee fittings	200° F (93° C) @ 0 PSI
PVC Tee fittings	140° F (60° C) @ 0 PSI
Full scale accuracy	+/- 1%
Tee material options	
Body, Paddle, Axle material	PVDF
0-ring seals	FKM (Optional EP)
Max. pressure drop	0 psi (no significant drop)
Approximate shipping wt	4 lb. (.91 kg)

WITH MOLDED IN-LINE BODY

BW DIGI-METER® F-2000 WITH SOLVENT TEE BODY PIPE SIZES 1", 1-1/2", 2", 3" BW DIGIMETER® F-2000 WITH SADDLE MOUNT PIPE SIZES 1-1/2", 2", 2-1/2", 3", 4", 6", 8", 10", 12"



BW DIGI-METER® F-2000 PANEL MOUNT



BW DIGI-METER® F-2000 WITH MOLDED IN-LINE BODY PIPE SIZES 3/8", 1/2", 3/4", 1", 1-1/2", 2"

BW DIGI-METER F-2000 FLOW MONITORING SYSTEM

BW DIGI-METER® F-2000 SERIES ELECTRONIC INSERTION STYLE FLOWMETERS, ARE WELL SUITED FOR MONITORING FLOW IN MUNICIPAL WATER AND WASTEWATER APPLICATIONS.

The clamp on saddle fitting and insertion sensor is quickly installed on IPS (ASTM-D-1785) pipe sizes from 1-1/2" through 12" and metric (DIN 8062) pipe sizes from 50mm through 315mm. The electronic display and communication enclosure can be mounted directly to the sensor, or remotely mounted to a pipe or panel.

Standard F-2000 models display flow rate and accumulated total flow, and include an NPN open

BW DIGIMETER® F-2000 FLOW MONITORING SYSTEM

collector output for communication with data loggers, SCADA systems, and other external devices. For additional information and assistance, please contact the factory.



BW DIGI-METER F-2000 with digital hall effect output signal

F-2000 BENEFITS

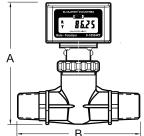
- > TTL/CMOS compatible, current sinking output signal.
- > Optional AC sine wave output sensor available.
- > One mile signal range without boosters.
- NEMA 4X rated.

F-2000 SPECIFICATIONS

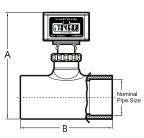
SADDLE FITTING

MOLDED FITTING

BW DIGI-METER F-1000 & F-2000 DIMENSIONS



F-1000 with			
MOLDED In-Line Body			
PIPE SIZE	A	В	
3/8" MPT	5-3/8"	4-3/4"	
1/2" MPT	5-3/8"	5-1/8"	
3/4" MPT	5-3/8"	5-1/4"	
1" MPT	5-3/8"	5-5/8"	
1-1/2" MPT	6-1/8"	6-1/2"	
2" MPT	6-3/8"	6-3/4"	



 F-1000 with SOLVENT TEE Body

 PIPE SIZE
 A
 B

 1"
 6"
 4"

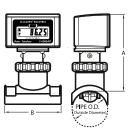
 1-1/2"
 6-5/8"
 4-1/2"

ייג

7-1/8

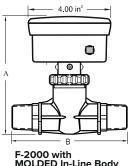
4-3/4'

5-1/2



F-1000 v		
SADDLE	MOUNT	Body
DIDE CIZE (mm)		D 7

PIPE SIZE (IIIIII)	A	D	
150(050)	4-5/16"	3-3/16"	
200(063)	4-5/16"	3-3/16"	
300(090)	4-5/16"	3-3/16"	
400(110)	4-5/16"	3-3/16"	
600(160)	4-1/4"	3-3/16"	
800(200)	4-1/4"	3-3/16"	
1000(250)	4-1/4"	4-1/2"	
1200(315)	4-1/4"	4-1/2"	



PIPE SIZE	A	BOUL
3/8" MPT	5-7/8"	4-3/4"
1/2" MPT	5-7/8"	5-1/8"
3/4" MPT	6"	5-1/4"
1" MPT	6"	5-5/8"
1-1/2" MPT	6-1/2"	7"
2" MPT	6-3/4"	7"



BW DIGI-METER F-1000 & F-2000 INSTALLATION OPTIONS

BLUE-WHITE F-1000 AND F-2000 FLOWMETER model numbers include a pipe fitting as part of the complete model number. Although it is possible to purchase the pipe fittings separately, it is not necessary.

MOLDED IN-LINE

- > One piece injection molded construction.
- > Male pipe thread In-line installation.
- Polypropylene fittings for standard applications.
- > PVDF material for highly corrosive applications.

MOLDED IN-LINE SPECIFICATIONS

Actual pipe rating may vary. **PIPE SIZES:** 3/8", 1/2", 3/4",1", 1-1/2", 2" M/NPT

Max. Temp 200° F (93° C) @ 0 PSI

Note: Temperature rating of pipe fitting only.

MOLDED FITTINGS



SADDLE FEATURES

- > 1-1/2" thru 3" (50mm thru 90mm) injection molded PVDF.
- 4" thru 12" (110mm thru 315mm) machined from
- solid PVC sheet stock. Installs on existing pipe – no other fittings are required.

Nomina Pipe Si

- > No added pressure drop to system.
- > Ships with metal clamps to secure fitting to pipe.

SADDLE SPECIFICATIONS

200° F (93° C) @ 0 PSI (PVDF) Max. Temp 140° F (60° C) @ 0 PSI (PVC)

Note: Temperature rating of pipe fitting only. Actual pipe rating may vary.

I.P.S. PIPE SIZES:

1-1/2", 2", 2-1/2", 3", 4", 6", 8", 10", 12"

METRIC PIPE SIZES:

50, 63, 90, 110, 160, 200, 250, 315MM



- Easy to install. No added
- pressure drop to system.

TEE SPECIFICATIONS

Max. PSI

316 SS TEE 300 psig (20 bar) @ 70° F (21° C) PVC TEE 200 psig (13.8 bar) @ 70° F (21° C) Max. Temp 316 SS TEE 200° F (93° C) @ 0 PSI PVC TEE 140° F (60° C) @ 0 PSI

TEE FITTINGS

PIPE SIZES:

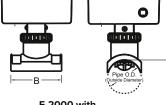
1", 1-1/2", 2", 3"



0 ute te

F-2000 with SOLVENT TEE Body			
PIPE SIZE	Α	В	
1"	6"	4"	
1-1/2"	6-5/8"	4-1/2"	
2"	7-1/8"	4-3/4"	

R



r-2000 with			
SADDLE	MOUNT	Body	
PIPE SIZE (mm)	A	В	
150(050)	4-1/2"	3-3/16"	
200(063)	4-1/2"	3-3/16"	
300(090)	4-1/2"	3-3/16"	
400(110)	4-1/2"	3-3/16"	
600(160)	4-3/8"	3-3/16"	
800(200)	4-3/8"	3-3/16"	
1000(250)	4-3/8"	4-1/2"	
1200(315)	4-1/2"	4-1/2"	



PRECISION CHEMICAL METERING & FLOW MONITORING

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