



Blue-White[®]

Industries, Ltd.

METERING PUMPS | FLOWMETERS

QUALITY • PERFORMANCE • STYLE

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[®]
C-1500N



CHEM-FEED[®]
C-600P



CHEM-FEED[®]
C-1100E

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.

CHEM-FEED® C-600P 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 suction and discharge tubing, and all mounting hardware.
- Efficient, dependable design – each unit is factory tested.
- Private labeling for volume purchasers.



C-600P



C-600P ORDERING GUIDELINES

MODEL NUMBER	GPD	MAX OUTPUT @ 0 PSI			MAX PSI
		GPH	LPH	OZ/MIN	
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 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 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® C-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

MODEL NUMBER	GPD	MAX OUTPUT @ 0 PSI			MAX PSI
		GPH	LPH	OZ/MIN	
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/60Hz.....starting 3.4 / running 2.0
 12VDC 3.0 amp max
 24VDC 1.50 amp max
 Dimensions 7" H x 6-3/4" W x 6-1/8" D
 Approximate shipping wt. . 8 lb. (3.6 kg)



C-600HV



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 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, 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
 O-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

MODEL NUMBER	GPD	MAX OUTPUT @ 0 PSI			Max Strokes Per minute	MAX PSI
	GPH	LPH	OZ/MIN			
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 NUMBER	GPH	MAX OUTPUT @ 0 PSI			Max Strokes Per minute	MAX PSI
		LPH	OZ/MIN			
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(*)1I000V00	.032-6.4	.123-24.6	.069-13.8	125	20	

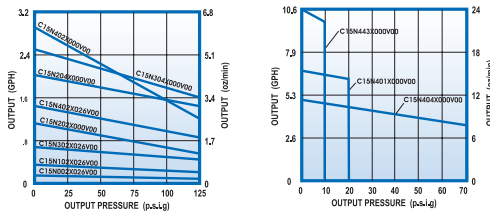
VOLTAGE OPTIONS

(*) 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



C-1500N

C-1500N DELUXE



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
 O-ring seals FKM and TFE/P
 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

STANDARD MODEL with Stroke Adjustment

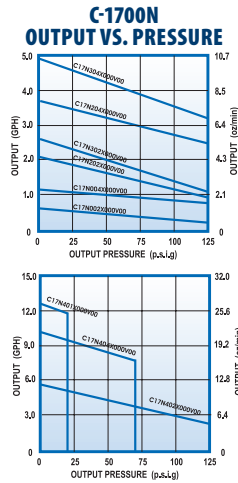
MODEL NUMBER	GPD	MAX OUTPUT @ 0 PSI GPH	LPH	OZ/MIN	Max Strokes Per minute	MAX PSI
C17N0(*)2X000V00	14.2	0.6	2.3	1.3	14	125
C17N0(*)4X000V00	28.9	1.2	4.5	2.6	14	125
C17N2(*)2X000V00	50.2	2.1	7.9	4.4	45	125
C17N3(*)2X000V00	62.3	2.6	9.8	5.5	60	125
C17N2(*)4X000V00	89.7	3.7	14.1	8.0	45	125
C17N3(*)4X000V00	119.0	5.0	18.8	10.6	60	125
C17N4(*)2X000V00	133.8	5.5	21.1	11.9	125	125
C17N4(*)4X000V00	243.3	10.1	38.4	21.6	125	70
C17N4(*)1X000V00	304.2	12.6	48.0	27.0	125	20

VOLTAGE OPTIONS

(*)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.



C-1700N



FLOW INDICATOR Diagnostic Tool for 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:
 - lost prime
 - stopped motor
 - plugged injection fitting
 - faulty tube or diaphragm
 - plugged or dirty footvalve filter
 - chemical has been exhausted for a lengthy period of time

APPLICATIONS

- > Glass bobbin for Chlorines and Acids.
- > Stainless Steel bobbin for soaps and waxes (high viscose fluids).

ORDERING GUIDELINES

MODEL NUMBER	Tube Connection	Bobbin Material	Body Material	O-ring
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

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 NUMBER	Tube Connection	(OD) Valve	Body Material	O-ring
C-340A	1/4" and 3/8" tubing	Check Valve	PVDF	FKM
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	Acrylic	FKM



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 pump is mounted on a sturdy Polyethylene tank, which is offered in three convenient sizes: 7, 15 or 30 gallon capacity. The tank is constructed of Polyethylene and features extra heavy wall thickness for added strength, and includes a U.V. inhibitor for sunlight protection. The tank is rectangular in shape for convenient placement, and is raised off the floor for easy wash down. An opening at the top of the tank makes adding chemical simple. The multi-position opening can be left open, or can be completely closed, or vented. For an efficient, well-designed metering system, choose The Star System.

STAR SYSTEM ORDERING GUIDELINES

STANDARD MODEL NUMBER	MAX OUTPUT @ 0 PSI				Max Strokes Per minute	MAX PSI
	GPD	GPH	LPH	OZ/MIN		
T15N0(**)2X026V0(***)	3.4	0.2	0.5	0.3	14	125
T15N1(**)2X026V0(***)	8.3	0.3	1.3	0.7	30	125
T15N3(**)2X026V0(***)	16.3	0.6	2.5	1.4	60	125
T15N2(**)2X000V0(***)	26.6	1.1	4.2	2.4	45	125
T15N4(**)2X026V0(***)	34.2	1.4	5.4	3.0	125	125
T15N2(**)4X000V0(***)	49.0	2.0	7.7	4.3	45	125
T15N3(**)4X000V0(***)	57.7	2.4	9.1	5.1	60	125
T15N4(**)2X000V0(***)	68.4	2.8	10.8	5.9	125	125
T15N4(**)4X000V0(***)	119.7	4.9	18.9	10.6	125	70
T15N4(**)1X000V0(***)	155.9	6.4	24.6	13.8	125	20
T15N4(**)3X000V0(***)	228.1	9.5	36.0	20.2	125	10

STAR SYSTEM C-600P BENEFITS

- The Star System is equipped with the C-1500N model of your choice – Standard or Deluxe.
- All necessary accessories are included.
- Three Tank capacities to choose from: 7 gallon, 15 gallon, or 30 gallon. 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 rectangular shape.
- Flooded suction assists in priming.
- Raised off the floor for easy wash down.

DELUXE MODELS with 7, 15, and 30 GALLON Tanks

DELUXE MODEL NUMBER	MAX OUTPUT @ 0 PSI				Max Strokes Per minute	MAX PSI
	GPD	GPH	LPH	OZ/MIN		
T15N4(**)2I026V00	.007-1.4	.027-5.40	.015-3.00		125	125
T15N4(**)2I000V00	.014-2.8	.054-10.8	.030-5.90		125	125
T15N4(**)1I000V00	.032-6.4	.123-24.6	.069-13.8		125	20

VOLTAGE OPTIONS

(*) 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

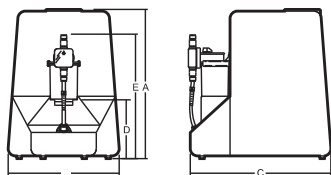
STAR TANKS ONLY

MODEL NUMBER	CAPACITY GAL	LITER
STAR7	7	26.5
STAR15	15	57
STAR30	30	113.5

STAR SYSTEM

DIMENSIONS = INCH (CM)

	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'	SHIP WT.
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)
15 GALLON TANK	22.0 (56.0)	15.5 (39.0)	19.5 (50.0)	7.8 (19.7)	17.0 (43.0)	28 LB. (13 Kg)
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)



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.

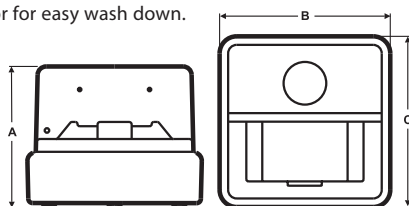
The STAR III® tank is available in 7, 15 or 30 gallon capacity. The Polyethylene Tank has UV inhibitors for sunlight protection; and extra heavy wall thickness for stability. A well located opening at the top of the tank allows for easy addition of chemical. The tank lid position can be open, closed or vented. The STAR III® tank is a handy rectangular shape, and is raised off the floor for easy wash down.

For a convenient Peristaltic Metering System Package, Get the FLEXFLO® STAR III®.

FLEXFLO® STAR III® BENEFITS

- The Star III® is equipped with the FLEXFLO® A-100N model of your choice - fixed or variable speed models with standard or digital controls.
- All necessary accessories are included.
- Three Tank capacities to choose from: 7 gallon, 15 gallon, or 30 gallon. 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 rectangular shape.
- Raised off the floor for easy wash down.

Note: Refer to the 85000-045 data sheet or visit blue-white.com for more information.



DIMENSIONS = INCH (CM)

	DIM 'A'	DIM 'B'	DIM 'C'	SHIP WT.
7 GALLON TANK	12.00 (30)	18.50 (47)	18.50 (47)	24 LB. (11 Kg)
15 GALLON TANK	17.25 (44)	20.00 (51)	20.00 (51)	32 LB. (15 Kg)
30 GALLON TANK	27.50 (69)	20.00 (51)	20.00 (51)	38 LB. (18 Kg)



STAR III® with 15 Gallon

CHEM-FEED® C-1100 SERIES Fixed Speed Units

The Superior CHEM-FEED® C-1100 Fixed Speed pumps are offered with three output control options.

STANDARD X MODELS feature a quick-adjusting, high accuracy mechanical stroke length control. The efficient design of the pump allows for a minimum stroke length of 5%. Minimum recommended output is 5% of maximum.

DELUXE C MODELS feature stroke length and electronic time interval control. The pump's 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.

DIGITAL E MODELS feature stroke length, electronic user programmable time interval (interval lengths from 1 through 99 seconds are user programmable), and external input signal control. The unit accepts pulse inputs (programmable from 1-9900) which can trigger programmable timed chemical injection batches from 1-99 seconds in duration. Analog signals can be used to remotely vary the interval timer's on-time adjustment.

CHEM-FEED® C-1100 BENEFITS

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

CHEM-FEED® C-1100 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.

C-1100 FIXED SPEED SPECIFICATIONS

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..... 10 ft. Water
 Output accuracy..... +/- 1% full scale repeatability
 Turndown ratio..... 20:1 Standard models
 400:1 Deluxe models
 4000:1 Digital models
 Enclosure..... Acceptable for outdoor use. NEMA 3R (IP23)
 Amperage draw..... 115V/60Hz..... start 1.37 / run 1.95
 220V/60Hz..... start 0.57 / run 0.37
 220V/50Hz..... start 0.49 / run 0.34
 O-ring seals..... FKM and TFE/P (Optional EP)
 Dimensions..... 6-1/4" H x 10" W x 9-1/4" D
 Approximate shipping wt... 10 lb. (4.2 kg)

C-1100 FIXED SPEED ORDERING GUIDELINES

STANDARD X MODELS with Stroke Adjustment

MODEL NUMBER	GPD	MAX OUTPUT AT 0 PSI			Max Strokes Per minute	MAX PSI
		GPH	LPH	OZ/MIN		
C11X3(*)4X000V00	57.7	2.4	9.1	5.1	60	150
C11X4(*)4X000V00	119.7	4.9	18.9	10.6	125	150
C11X4(*)1X000V00	155.9	6.4	24.6	13.8	125	150
C11X5(*)4X000V00	260.8	10.8	41.1	23.1	250	100
C11X5(*)3X000V00	360.0	15.0	56.8	32.0	250	25

DELUXE C MODELS with Stroke and Time Adjustment

MODEL NUMBER	GPD	MAX OUTPUT AT 0 PSI			Max Strokes Per minute	MAX PSI
		GPH	LPH	OZ/MIN		
C11C3(*)4X000V00	57.7	2.4	9.1	5.1	60	150
C11C4(*)4X000V00	119.7	4.9	18.9	10.6	125	150
C11C4(*)1X000V00	155.9	6.4	24.6	13.8	125	150
C11C5(*)4X000V00	260.8	10.8	41.1	23.1	250	100
C11C5(*)3X000V00	360.0	15.0	56.8	32.0	250	25

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

MODEL NUMBER	GPD	MAX OUTPUT AT 0 PSI			Max Strokes Per minute	MAX PSI
		GPH	LPH	OZ/MIN		
C11E3(*)4X000V00	57.7	2.4	9.1	5.1	60	150
C11E4(*)4X000V00	119.7	4.9	18.9	10.6	125	150
C11E4(*)1X000V00	155.9	6.4	24.6	13.8	125	150
C11E5(*)4X000V00	260.8	10.8	41.1	23.1	250	100
C11E5(*)3X000V00	360.0	15.0	56.8	32.0	250	25

VOLTAGE OPTIONS

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



STANDARD X MODEL
with Stroke Adjustment



DELUXE C MODEL
with Stroke Length & Time Interval Control



DIGITAL E MODEL
with Stroke Length & Time Interval Control

CHEM-FEED® C-1100 SERIES Variable Speed Units

The CHEM-FEED® C-1100 Variable Speed Units feature Two Output Control Options.

DELUXE F MODELS have stroke length and analog speed control. The pump's speed is adjustable from 5-100% of the maximum using a dial knob style controller. The minimum recommended output is .25% of maximum.

DIGITAL V MODELS feature stroke length, manual digital percentage and external input signal speed control. The unit accepts pulse inputs from 1-999 Hz 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.



DELUXE F MODEL - VARIABLE SPEED UNIT with Stroke Length & Analog Speed Control



DIGITAL V MODEL - VARIABLE SPEED UNIT with Stroke Length & 4-20mA, 0-10dc, and Pulse Input Speed Control

CHEM-FEED® C-1100 BENEFITS

- > Superior pump head design.
- > All ball bearing, permanently lubricated gear motor for smooth, powerful operation.
- > Flow verification sensor option available.
- > No special input signal connectors to buy.
- > 1 amp alarm output (digital models).
- > Pump head design and material options.
- > Efficient, dependable design - each unit is factory tested.
- > Private labeling for volume purchasers.
- > 3/8" OD x 1/4" ID tubing connections.

CHEM-FEED® C-1100 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.

C-1100 VARIABLE SPEED SPECIFICATIONS

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.....	10 ft. Water
Output accuracy.....	+/- 1% full scale repeatability
Turndown ratio.....	400:1
Enclosure.....	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
O-ring seals.....	FKM and TFE/P (Optional EP)
Dimensions.....	6-1/4" H x 10" W x 9-1/4" D
Approximate shipping wt....	12 lb. (5.4 kg)

C-1100 VARIABLE SPEED ORDERING GUIDELINES

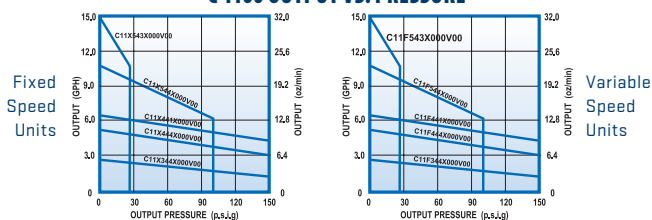
DELUXE F MODELS with Stroke and Dial Knob Speed Adjustment	MAX OUTPUT AT 0 PSI				Max Strokes Per minute	MAX PSI
	MODEL NUMBER	GPD	GPH	LPH		
C11F3(*)4X000V00	57.7	2.4	9.1	5.1	60	150
C11F4(*)4X000V00	119.7	4.9	18.9	10.6	125	150
C11F4(*)1X000V00	155.9	6.4	24.6	13.8	125	150
C11F5(*)4X000V00	260.8	10.8	41.1	23.1	250	100
C11F5(*)3X000V00	360.0	15.0	56.8	32.0	250	25

DIGITAL V MODELS with Stroke, Pulse Input and 4-20mA Analog Input Speed Adjustment	MAX OUTPUT AT 0 PSI				Max Strokes Per minute	MAX PSI
	MODEL NUMBER	GPD	GPH	LPH		
C11V3(*)4X000V00	57.7	2.4	9.1	5.1	60	150
C11V4(*)4X000V00	119.7	4.9	18.9	10.6	125	150
C11V4(*)1X000V00	155.9	6.4	24.6	13.8	125	150
C11V5(*)4X000V00	260.8	10.8	41.1	23.1	250	100
C11V5(*)3X000V00	360.0	15.0	56.8	32.0	250	25

VOLTAGE OPTIONS

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

C-1100 OUTPUT VS. PRESSURE



FLEXFLO® PERISTALTIC METERING PUMPS

When your installation calls for 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 patented pump tube design! It's easy to install, and doesn't need to be manually advanced.

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 Injector – Get FLEXFLO®!



A-100NV

FLEXFLO® BENEFITS

- Self priming, even against line pressure.
- Precise chemical feed up to 124 GPH / 8.45 LPH, with max working pressure of 100 PSI / 6.9 bar.
- Tube Failure Detection System (TFD).
- Compatible with Blue-White's Micro-Flo Verification Sensor.
- De-gassing design eliminates gas or air accumulation in the head.
- Precise output control to 20:1 turndown by means of dial knob.
- Preset 60 second recycle time (other time cycles available).
- Output amount is not affected by changes in back pressure.
- Durable housing of rugged Valox.
- Advanced cooling system.

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® OPTIONS

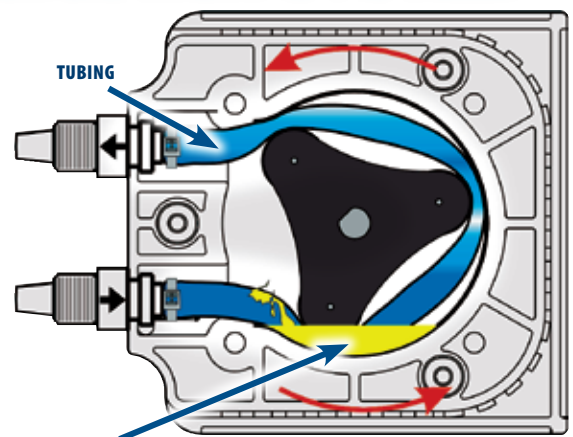
There are a wide range of feed/output rate options, voltage options, motor options, feature and configuration options. In addition, the factory is pleased to quote on custom material and output options, as well as private labeling and packaging for volume purchasers.

The Exclusive Patented TUBE FAILURE DETECTION SYSTEM

Exclusive
PATENTED
TECHNOLOGY

TFD system
Tube Failure Detection

Blue-White® developed The TFD system for peristaltic pumps and is the only manufacturer able to offer the Patented TFD System (U.S. Patent 7,001,153 and 7,284,964). The TFD System is able to detect a wide range of chemicals (i.e. chlorine, acids, soaps, etc.). This exclusive technology was designed to disregard pump compatible fluids; such as water and lubricants. If there is a rupture in the pump tube, and a chemical is detected in the pump head, the pump will automatically shut off and energize a relay, permitting communications with external equipment, such as an alarm or a SCADA system. The chemical must be cleaned from the pump head before the pump will restart. The TFD System is a Standard Feature on Blue-White's FLEXFLO® Series Peristaltic Metering Pumps.



NON-COMPATIBLE FLUID IS IMMEDIATELY DETECTED IN THE PUMP HEAD. THE PUMP SHUTS DOWN.

FLEXFLO® A-100NC & A-100NE Peristaltic Fixed Speed Units



FLEXFLO® A-100NC - FIXED SPEED UNIT with Time Interval Control



FLEXFLO® A-100NE - FIXED SPEED UNIT with Pulse Input Batching & Time Interval Control



FLEXFLO® ANALOG MODEL A-100NC BENEFITS

- > Self priming against maximum line pressure.
- > Precise chemical feed up to 124 GPH / 8.45 LPH, with max working pressure of 100 PSI / 6.9 bar.
- > Tube Failure Detection System (TFD).
- > Compatible with Blue-White's Micro-Flo Verification sensor.
- > De-gassing design eliminates gas or air accumulation in the head.
- > 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 a high frequency of small injections per minute.
- > Output amount is not affected by changes in back pressure.
- > Durable housing of rugged valox.
- > Advanced cooling system.

FLEXFLO® DIGITAL MODEL A-100NE BENEFITS

- > Self priming against maximum line pressure.
- > Precise chemical feed up to 124 GPH / 8.45 LPH, with max working pressure of 100 PSI / 6.9 bar.
- > De-gassing design eliminates gas or air accumulation in the head.
- > 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.
- > Output amount is not effected by changes in back pressure.
- > Durable housing of rugged valox.
- > Advanced cooling system.

FLEXFLO® A-100N 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.

A-100N FIXED SPEED SPECIFICATIONS

Max. Working Pressure100 psig (6.9 bar)
 Max. Fluid Temperature.....130°F (54°C)
 Ambient Temp Range14" to 110" F(-10" to 43°C)
 Max. Viscosity5,000 Centipoise
 Max. Suction Lift.....30 ft. Water 0 psig
 Duty CycleContinuous
 Max. Solids50% by volume
 Amperage Draw115V/60Hz, 230V/60Hz, 220V/50Hz
 Injection Fitting O-ring Seals... FKM and TFE/P (Optional EP)
 Dimensions6-1/4" H x 10" W x 9-1/4" D
 Approx. Shipping Weight.....10 lb. (4.5 kg)

A-100N FIXED SPEED OPERATING GUIDELINES

MODEL NUMBER	FIXED and VARIABLE SPEED MODELS		MAX OUTPUT @ ANY PRESSURE	MAX PSI	
	GPD	GPH			LPH
A1N0(**)-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

VOLTAGE OPTIONS

(*)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

PUMP TUBING MATERIAL SELECTION GUIDE

NORPRENE®

Alcohol general
 Alum, 5% in water
 Ammonium chloride
 Ammonium hydroxide
 Benzyl alcohol
 Bleach
 Brine solutions
 Calcium hypochlorite 20%
 Ethylene glycol
 Ferric chloride
 Ferric nitrate
 Ferric sulfate
 Ferrous chloride
 - 43% in water
 Ferrous sulfate
 Formic acid
 Glucose
 Hydrochloric acid 33%

Hydrocyanic acid
 Hydrogen peroxide
 Hypochlorous acid
 Iodine
 Lactic acid
 Magnesium chloride
 Magnesium sulfate
 Phosphoric acid
 Plating solutions
 Potassium hydroxide
 Potassium permanganate
 Propylene glycol
 Sodium hydroxide 40%
 Sodium Bisulfite
 Sodium Hypochlorite 12.5%
 Sodium sulfide
 Sulfuric acid 50%
 Tannic acid

TYGOTHANE®

Cyclohexane
 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

FKM

Allyl Alcohol
 Ethylene bromide
 Hydrofluoric acid
 Hydrobromic acid
 Isopropyl Alcohol
 Toluene

FLEXFLO® A-100NF & A-100NV Peristaltic Variable Speed Units

FLEXFLO® ANALOG MODEL A-100NF BENEFITS

- > Self priming against maximum line pressure.
- > Precise chemical feed up to 124 GPH / 8.45 LPH, with max working pressure of 100 PSI / 6.9 bar.
- > Output amount is not affected by changes in back pressure.
- > Tube Failure Detection System (TFD).
- > Compatible with Blue-White's Micro-Flo Verification sensor.
- > Easy to use dial knob style output control.
- > Variable speed results in near continuous chemical injection.
- > De-gassing design eliminates gas or air accumulation in the head.
- > Durable housing of rugged Valox.

FLEXFLO® DIGITAL MODEL A-100NV BENEFITS

- > Self priming against maximum line pressure.
- > Precise chemical feed up to 124 GPH / 8.45 LPH, with max working pressure of 100 PSI / 6.9 bar.
- > Output amount is not affected by changes in back pressure.
- > Tube Failure Detection System (TFD).
- > 1 amp alarm output relay switch.
- > Compatible with Blue-White's Micro-Flo Verification sensor.
- > Precise output control with digital touch and LCD display.
- > Variable speed results in near continuous chemical injection.
- > Accepts 4-20mA, 0-10Vdc, and Pulse inputs for external speed control.
- > Easy to read Service and Alarm indicator icons on LCD display.
- > Display motor speed or input signal values on the LCD display.
- > De-gassing design eliminates gas or air accumulation in the head.
- > Durable housing of rugged Valox.

A-100N VARIABLE SPEED SPECIFICATIONS

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.....	5,000 Centipoise
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....	FKM and TFE/P (Optional EP)
Dimensions.....	6-1/4" H x 10" W x 9-1/4" D
Approx. Shipping Weight.....	10 lb. (4.5 kg)

A-100N VARIABLE SPEED ORDERING GUIDELINES

FIXED and VARIABLE SPEED MODELS

MODEL NUMBER	MAX OUTPUT @ ANY PRESSURE				MAX PSI
	GPD	GPH	LPH	ML/MIN	
A1N0(*)(**)-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

VOLTAGE OPTIONS

(*)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-100NF - VARIABLE SPEED UNIT with Percentage Speed Control



FLEXFLO A-100NV - VARIABLE SPEED UNIT with 4-20mA, 0-10dc, and Pulse Input Speed Control

FLEXFLO® A-1600 Simple and Efficient

FLEXFLO® A-1600 BENEFITS

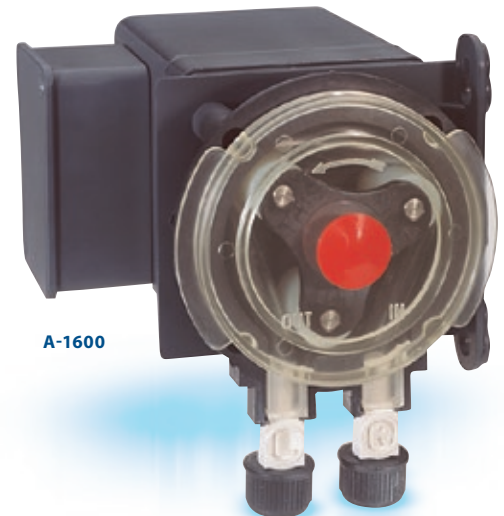
- > Basic design that is efficient and economical.
- > No valves to clog in the pump head.
- > Self priming against maximum line pressure.
- > De-gassing design eliminates gas or air accumulation in the head.
- > Patented pump tube design for easy installation and trouble free operation.
- > Output amount 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.....	130° F (54° C)
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
Approx. Shipping Weight.....	8 lb. (3.6 kg)



A-1600

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 order!

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 be

installed 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 PressurePVC lens: 130 psig (9 bar) @ 70°F (21°C)
PVC lens: 150 psig (10 bar) @ 70°F (21°C)
Max. Fluid Temperature.....PVC lens, and connectors: 130°F (54°C) @ 0 PSI
PVDF lens, and connectors: 200°F (93°C) @ 0 PSI
Body, Paddle, Axle MaterialPVDF
Connector Material3/8" Tubing connectors: PVDF
O-ring SealsFKM
Compression Seal to Pump.....PVC
Approx. Shipping Weight.....1 lb. (.45 kg)

MICRO-FLO ORDERING GUIDELINES

MODELS with PVC LENS CAP

MODEL NUMBER	GPD	OPERATING FLOW RANGE	
		OZ/MIN	ML/MIN
FV-100-6V	11.4 to 114	1 to 10	30 to 300
FV-200-6V	38.0 to 380	3.5 to 35	100 to 1000
FV-300-6V	76.0 to 760	7 to 70	200 to 2000
FV-400-6V	114 to 1440	10 to 100	300 to 3000
FV-500-6V	190 to 1900	17 to 170	500 to 5000
FV-600-6V	266 to 2660	24 to 240	700 to 7000

MODELS with PVDF LENS CAP

FV-101-6V	11.4 to 114	1 to 10	30 to 300
FV-201-6V	38.0 to 380	3.5 to 35	100 to 1000
FV-301-6V	76.0 to 760	7 to 70	200 to 2000
FV-401-6V	114 to 1440	10 to 100	300 to 3000
FV-501-6V	190 to 1900	17 to 170	500 to 5000
FV-601-6V	266 to 2660	24 to 240	700 to 7000

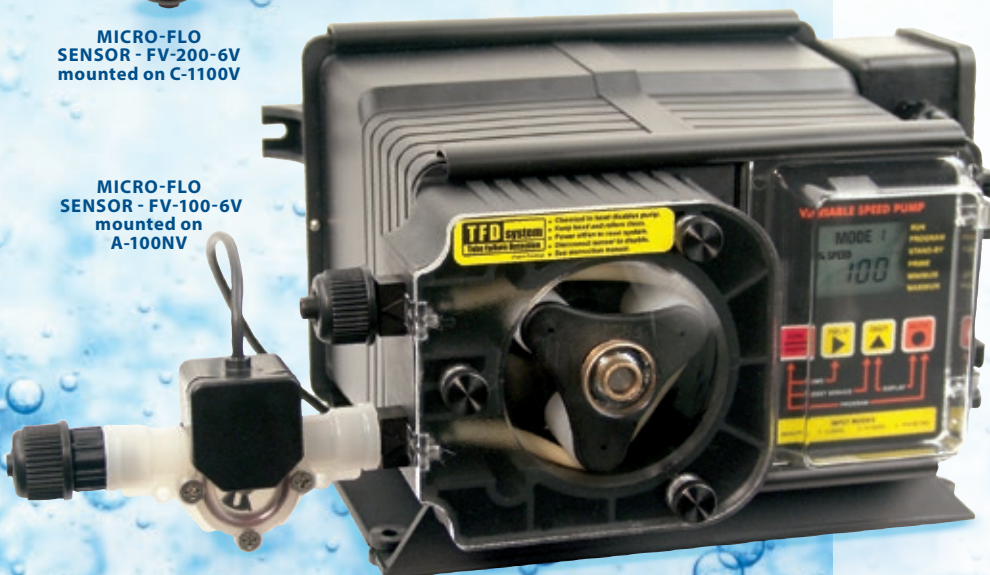


Installation Examples



MICRO-FLO SENSOR - FV-200-6V mounted on C-1100V

MICRO-FLO SENSOR - FV-100-6V mounted on A-100NV



MODEL PC Proportional Feed System

MODEL PC SYSTEM BENEFITS

- > The F-2000 digital paddlewheel flowmeter includes circuitry that automatically turns on your metering pump for a preset injection time, from 1 through 999 seconds, per volume of fluid flow measured.
- > The simple relay switch (8A 115/230Vac) can be used to control any electrically operated device such as a metering pump, centrifugal pump, solenoid valve, etc.
- > It maintains a constant chemical injection to water flow ratio regardless of changes in the system flow rate or pressure.
- > Setpoint status icon indicates when chemical is being injected.
- > Total number of injections (batches) is recorded and displayed.
- > When purchased as a Flowmeter & Pump System Kit, the system is factory wired and tested for easy installation.
- > Hundreds of Flowmeter and pump combinations from which to choose.

MODEL PC SYSTEM APPLICATIONS

- > Water treatment and conditioning.
- > Wastewater treatment.
- > Biocide feed.
- > Rural water well systems.
- > Cooling tower & boiler treatment.
- > Fertilizer and nutrient injection.

How to Build Your System

1 SELECT YOUR F-2000-PC FLOWMETER:

Each F-2000 flowmeter is designed specifically for use on the intended pipe size and operating flow range. Contact the factory for assistance in specifying the correct model for your application.

THE MODEL F-2000-PC FEATURES THE FOLLOWING OPTIONS:

- > Models with flow ranges from .4 to 8000 gallons per minute.
- > Pipe sizes from 3/8" through 12".
- > Pipe fitting styles include:
 - Injection molded inline units with MPT end connectors. 3/8" - 2" pipe.
 - Machined inline units with FPT end connectors and union adapters. 3/8" - 2" pipe.
 - Saddle mount units from 1-1/2" - 12" pipe.
 - PVC solvent weld tee fittings from 1" - 3"
- > Display mounting options include:
 - On-sensor mounting.
 - Remote panel mounting (1/4 DIN opening)
 - Remote pipe or wall mounting.
- > Power options include 115Vac, 220Vac, 230Vac, 16-24V DC.
- > Calibration unit options:
 - Gallons, liters, cubic meters, acre feet, imperial gallons, or custom units.

2 SELECT YOUR METERING PUMP:

Virtually any metering pump can be used for your Proportional Feed System. For diaphragm pump applications, we recommend the CHEM-FEED® C-1500N Series. For peristaltic pump applications, we recommend the FLEXFLO A-100N Series. Contact the factory for assistance in specifying the best model for your application.

OPTION 1: CHEM-FEED® C-1500N DIAPHRAM PUMP

- > Standard Models feature a quick adjusting, high accuracy mechanical stroke length feed control allowing you to easily fine tune your system.
- > Superior pump head design.
- > All ball bearing gear motor for smooth, powerful operation.
- > Voltage options 115Vac, 220Vac, 230Vac, 24Vac.
- > Pump head configuration and material options.
- > Field serviceable.
- > Efficient, dependable design - each unit is factory tested.
- > Can be purchased as the Star System® Tank System.

OPTION 2: FLEXFLO® A-100N PERISTALTIC PUMP

- > Self priming, even against line pressure.
- > No valves in the pump head to clog or clean.
- > Great for slurries.
- > Patented Tube Failure Detection System (TFD).
- > De-gassing design eliminates gas or air accumulation in the pump head.
- > Output amount is not effected by changes in back pressure.
- > Voltage options: 115Vac, 220Vac, 230Vac.
- > Can be purchased as the Star III® Tank System.

3 CONTACT THE FACTORY:

Our sales staff can assist you in selecting the exact flowmeter and pump models to meet your application requirements. The flowmeter and pump will be pre-wired and factory tested to ensure a high quality, no-hassle installation.



OPTION 1 - C-1500N DIAPHRAM PUMP SYSTEM

F-2000 FLOWMETER MODEL NUMBER: PCS11MP2GM2-Z
C-1500N PUMP MODEL NUMBER: C15N402Z000V00
(Model Shown: Star-7. Tank sold separately)



OPTION 2 - A-100N PERISTALTIC PUMP SYSTEM

F-2000 FLOWMETER MODEL NUMBER: PCP120K8GM1-ZW
A-100N PUMP MODEL NUMBER: A1N10A-6T
(Model Shown: Star3-30. Tank sold separately)

ACRYLIC VARIABLE AREA FLOWMETERS

The F-400 SERIES of In-Line Units



F-400N

F-400N

F-400N BENEFITS

- Tough machined acrylic meter body, highly polished to a clear finish.
- 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.

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
 O-ring seals..... FKM (optional EP)
 Approximate shipping wt... 1/2 lb. (.23 kg)
 NIST certificates optional

PIPE SIZES

1/4", 3/8" and 1/2" F/NPT

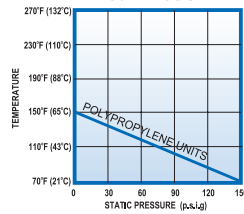
FLOW RATES

0.025 to 5 GPM
 0.1 to 20 LPM
 0.2 to 20 SCFM
 0.4 to 34 M³HR

DIMENSIONS

Height: 8-3/16"
 Width: 1-1/4"

F-400N TEMPERATURE VS. PRESSURE



F-420N



F-420N

F-420N BENEFITS

- Tough machined acrylic meter body, highly polished to a clear finish.
- 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
 O-ring seals..... FKM (optional EP)
 Approximate shipping wt... 2 lb. (.91 kg)
 NIST certificates optional

PIPE SIZES

1" and 1-1/2" M/NPT

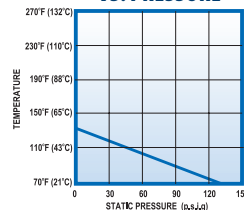
FLOW RATES

5 to 50 USGPM
 20 to 200 LPM

DIMENSIONS

Height: 12"
 Width: 2"

F-420N TEMPERATURE VS. PRESSURE



F-410N

F-410N BENEFITS

- Tough machined acrylic meter body, highly polished to a clear finish.
- Direct reading permanent scale.
- White back reflector for easy reading.
- Sturdy adapters with high grade FKM o-ring seals.
- 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.

F-410N SPECIFICATIONS

Max. Working Pressure 150 psig (10.3 bar) @ 70° F (21° C)
 Max. Fluid Temperature..... 316 SS and Hastelloy Floats: 150° F (65° C) @ 0 PSI
 PVC floats: 120° F (49° C) @ 0 PSI
 Full scale accuracy..... +/- 5%
 Meter body material..... Machined acrylic
 O-ring seals..... FKM (optional EP)
 Approximate shipping wt... 2 lb. (.91 kg)
 NIST certificates optional

PIPE SIZES

3/4" and 1" F/NPT

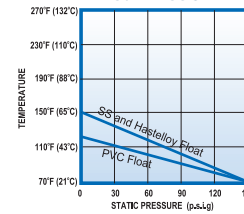
FLOW RATES

1 to 20 USGPM
 4 to 80 LPM
 4 to 80 SCFM
 8 to 140 M³HR

DIMENSIONS

Height: 11"
 Width: 1-3/4"

F-410N TEMPERATURE VS. PRESSURE



F-410N

F-430N



F-430N

F-430N BENEFITS

- Tough machined acrylic meter body, highly polished to a clear finish.
- 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.
- Optional Polypropylene and CPVC Adapters available.

F-430N 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
 O-ring seals..... FKM (optional EP)
 Approximate shipping wt... 6 lb. (2.7 kg)
 NIST certificates optional

PIPE SIZES

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

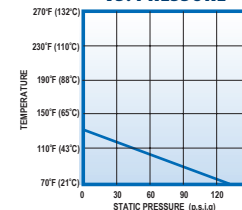
FLOW RATES

4 to 100 USGPM
 15 to 375 LPM

DIMENSIONS

Height: 14"
 Width: 3"

F-430N TEMPERATURE VS. PRESSURE

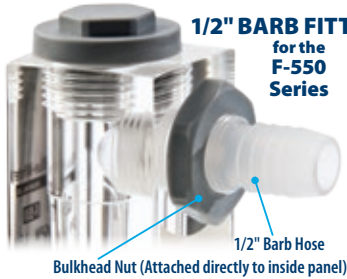


F-550 SERIES Machined Panel Mount Meter



F-550

F-550A with Integral Flow Adjustment Valve



1/2" BARB FITTINGS for the F-550 Series

1/2" Barb Hose

Bulkhead Nut (Attached directly to inside panel)

F-550 BENEFITS

- > Durable, highly polished, one piece machined meter body.
- > #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.

F-550 SPECIFICATIONS

Pressure 250 psig (17.2 Bar) @ 70°F (21°C)
 Temperature 200°F (93°C) @ 0 pressure
 Full Scale Accuracy ± 5%
 Meter Body Material Machined acrylic
 Adapter Material Polypropylene
 O-rings FKM (Optional EP)
 Float Material #316 SS
 Approximate Shipping Wt. .2 lbs. (.907 kg.)

F-550 ORDERING GUIDELINES

with NON-ADJUSTABLE & ADJUSTABLE Valves

MODEL NUMBER	CALIBRATION GPM	LPM	ADAPTER SIZE	FLAOT 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-55101L(*)	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

(*) To order with Flow Adjustment Valve add the letter "A" after the "L" in the model number.
 Model #F-55005L is not available with Adjustment Valve.
 For optional hastelloy internals, add letter "K" to model number.

F-550 NON-ADJUSTABLE DIMENSIONS

Model Number	A	B	C	D	E	Mount Hole
F-55250L (1/4")	7-1/4"	2-1/2"	1-1/16"	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	A	B	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"

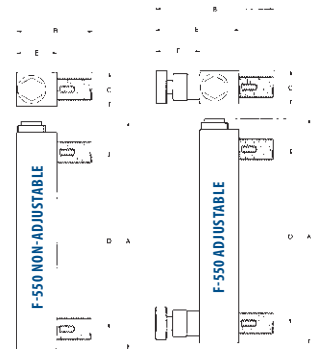
Note: Mount Hole Dimensions are the same as the Model Non-Adjustable

PIPE SIZES

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

FLOW RATES

0.025 to 20 GPM
 0.1 to 75 LPM
 0.1 to 45 SCFM



F-300 SERIES Machined Acrylic Flowmeters

F-300 BENEFITS

- > Well suited for closed pipe installation.
- > Easy to read dual scale (GPM/LPM), screen printed on both sides of the meter body.
- > Horizontal or Vertical pipe installation.
- > One piece machined acrylic meter body.
- > Corrosion resistant internal parts.
- > Calibrated pitot tube.
- > Ships with gasket seal and mounting clamps.
- > Calibrated for use on PVC or Copper Pipe.
- > Low Flow units offered.

F-300 SPECIFICATIONS

Max. Working Pressure 150 psig (10.3 bar) @ 70°F (21°C)
 Max. Fluid Temperature 190°F (88°C) @ 0 pressure
 Full Scale Accuracy ± 5%
 Meter Body Material Acrylic
 Connection Type Saddle
 Float Material #316 SS or PTFE (low flow units)
 Gasket Material Neoprene
 Max. Pressure Drop 0 psi
 Approx. Shipping Weight... 1" to 4" Pipe: 1 lbs. (.454 kg.); 6" to 8" Pipe: 2 lbs. (.907 kg.)

F-300 IMPROVEMENTS

- > 1-1/2" and 2" pipe sizes now have improved accuracy of +/- 5% to meet tougher Health Department requirements.
- > Shorter pipe runs required for "tight spot" installations.
- > No more Float "Bounce".
- > NSF Listing in Progress.
- > Same great design and styling.

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

Now with **IMPROVED ACCURACY!**



F-300

U-300

POLYSULFONE VARIABLE AREA FLOWMETERS

F-440 SERIES Compact Size. Big Performance.

F-440 BENEFITS

- Now with Adjustable Flow Indicating Marker.
- Increased meter body wall thickness.
- Engineered with large half union connections.
- Oversized o-rings for Superior seal.
- All wetted parts are now 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.

F-440 SPECIFICATIONS

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

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

O-Ring Material FKM

Approx. Shipping Weight 1/2lb. (.23 kg)

F-440 ORDERING GUIDELINES

STANDARD LIQUID MODELS

MODEL NUMBER	Pipe Size M/NPT	DUAL SCALE RANGE GPM	LPM	Float 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
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 Variations

*L = In-Line Model is listed

*LE = Panel Mount Model

*LA = Adjustable Model

*LK = In-Line K-Series - specially 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

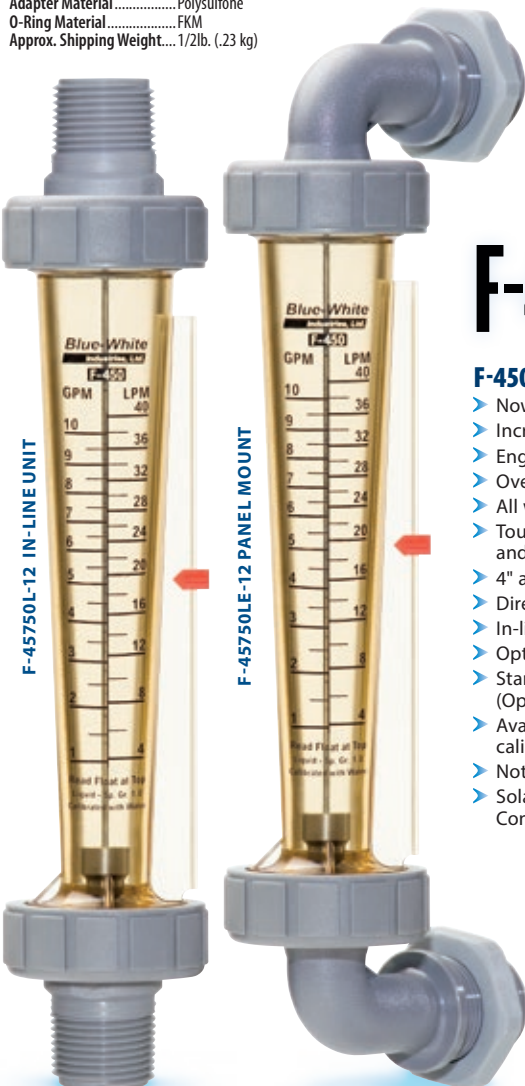
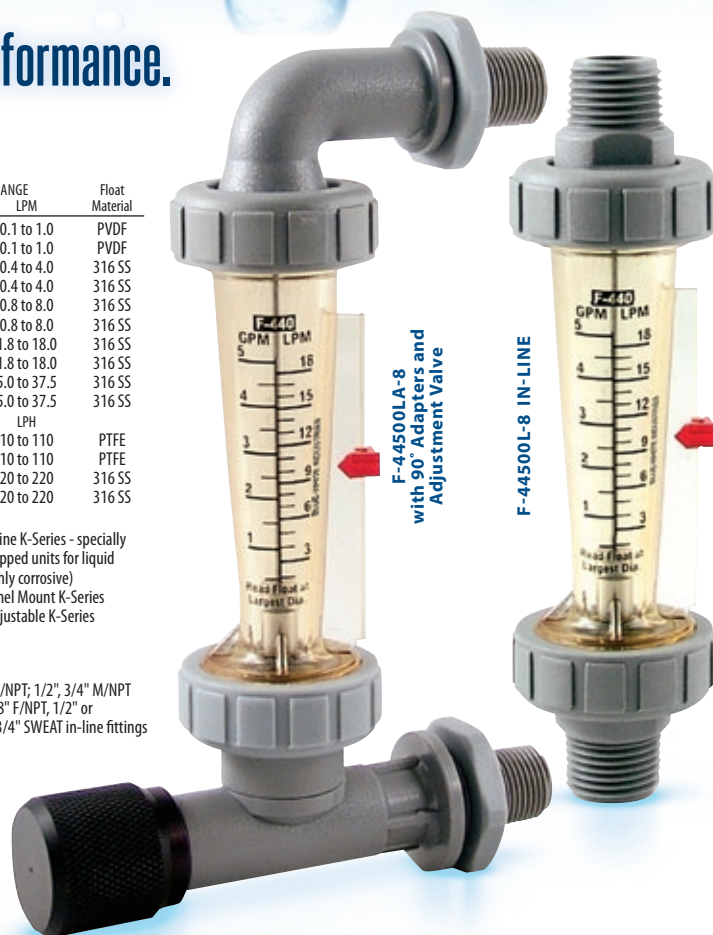
FLOW RATES

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

- Now with Adjustable Flow Indicating Marker.
- Increased meter body wall thickness.
- Engineered with large half union connections.
- Oversized o-rings for Superior seal.
- All wetted parts are now 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.

F-450N ORDERING GUIDELINES

STANDARD LIQUID MODELS

MODEL NUMBER	Pipe Size	DUAL SCALE RANGE GPM	LPM	Float 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

STANDARD AIR MODELS

MODEL NUMBER	Pipe Size	DUAL SCALE RANGE GPM	LPM	Float Material
F-45376G-6	3/8" F/NPT	1 to 12	2 to 20	316 SS
F-45376G-8	1/2" M/NPT	1 to 12	2 to 20	316 SS
F-45750G-12	3/4" M/NPT	4 to 48	8 to 80	316 SS

MODEL Variations

*L = In-Line Model is listed

*LE = Panel Mount Model

*LA = Adjustable Model

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

*LKE = Panel Mount K-Series

*LKA = Adjustable K-Series

F-450N SPECIFICATIONS

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

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

O-Ring Material FKM (Optional EP)

Max. Pressure Drop 2 psi

Approx. Shipping Weight 1/2lb. (.23 kg)

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 U.S. GPM

4 to 40 LPM

1 to 48 SCFM

2 to 80 M3/HR

* 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.

F-460 & F-461 SERIES For Ultra Pure & Corrosive Environments



F-460 & F-461 BENEFITS

- 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)
 Max. Fluid Temperature..... PVDF adapters: 210°F (98°C) @ 0 PSI, PVC adapters: 130°F (54°C) @ 0 PSI
 Full Scale Accuracy +/- 2-1/2%
 Meter Body Material Polysulfone
 Float Material PTFE
 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 PIPE SIZES

1" FNPT and 1" Socket Fusion

F-461 FLOW RATES

1 to 35 U.S. GPM
 4 to 130 LPM

F-461 DIMENSIONS

Height: 15"
 Width: 2-3/4"



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-460 & F-461 ORDERING GUIDELINES

STANDARD F-460 LIQUID MODELS with F/NPT Adapters

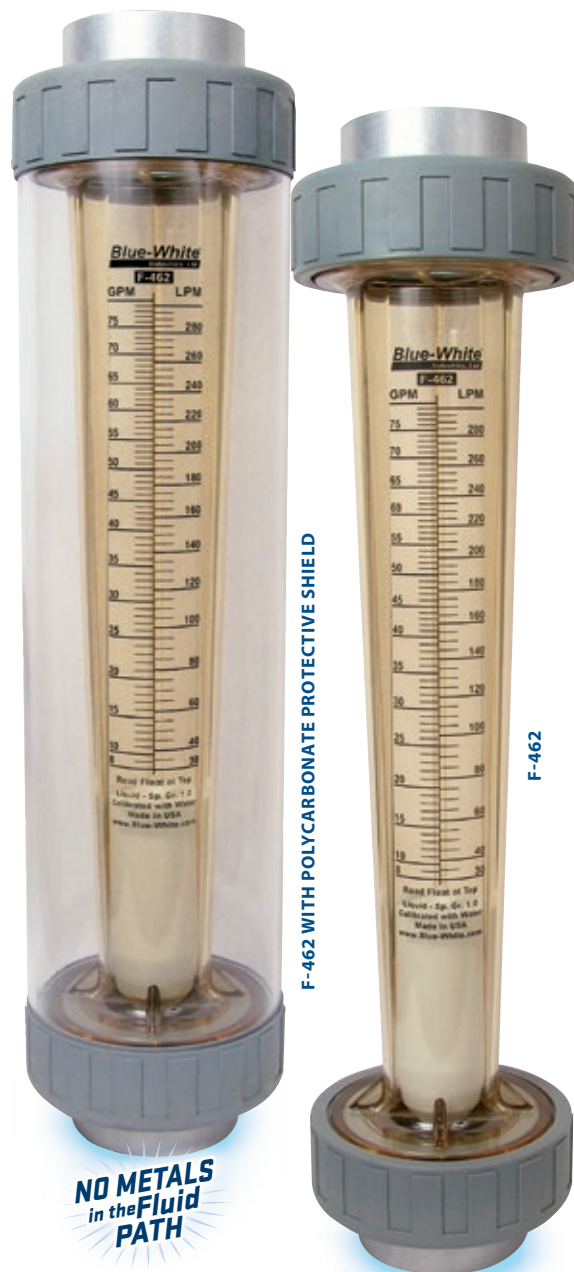
MODEL NUMBER	Pipe Size	DUAL SCALE RANGE	
		GPM	LPM
F-46010LX-08(*)	1/2"	0.1 to 1.2	0.4 to 4.4
F-46010LX-12(*)	3/4"	0.1 to 1.2	0.4 to 4.4
F-46020LX-08(*)	1/2"	0.2 to 2.0	0.8 to 8.0
F-46020LX-12(*)	3/4"	0.2 to 2.0	0.8 to 8.0
F-46030LX-08(*)	1/2"	0.3 to 3.0	1.0 to 11
F-46030LX-12(*)	3/4"	0.3 to 3.0	1.0 to 11
F-46050LX-08(*)	1/2"	0.5 to 5.0	2.0 to 20
F-46050LX-12(*)	3/4"	0.5 to 5.0	2.0 to 20

STANDARD F-461 LIQUID MODELS with F/NPT Adapters

MODEL NUMBER	Pipe Size	DUAL SCALE RANGE	
		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"



F-462 with Rib Guided Float High Capacity. Top Performance.

F-462 BENEFITS

- 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 150 psig (10.3 bar) @ 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 PTFE
 O-ring Seals FKM (Optional EP)
 Max. Pressure Drop 2 psi
 Approx. Shipping Weight..... 5 lb. (2.27 kg)

PIPE SIZES

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

DIMENSIONS

Height: 18-7/8"
 Width: 4-5/8"

FLOW RATES

2 to 80 GPM
 8 to 300 LPM

F-462 ORDERING GUIDELINES

STANDARD F-462 LIQUID MODELS with 2" F/NPT Adapters

MODEL NUMBER	Pipe Size	DUAL SCALE RANGE		Adapter Material	Float Material
		GPM	LPM		
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 NUMBER	Pipe Size	DUAL SCALE RANGE		Adapter Material	Float Material
		GPM	LPM		
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 NUMBER	Pipe Size	DUAL SCALE RANGE		Adapter Material	Float Material
		GPM	LPM		
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 Variations

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

* 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.

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.

F-451 ORDERING GUIDELINES

MODEL NUMBER	CALIBRATION		ADAPTER SIZE
	GPM	LPM	
F-451006LHN	0.5 to 6	to 22	1" F/NPT
F-451001LHN	1.0 to 10	4 to 40	1" F/NPT
F-451002LHN	2.0 to 20	7.5 to 75	1" F/NPT
F-451003LHN	3.0 to 30	12 to 115	1" F/NPT
F-451004LHN	4.0 to 40	15 to 155	1" F/NPT

1-1/2" F/NPT PVC Adapters

MODEL NUMBER	CALIBRATION		ADAPTER SIZE
	GPM	LPM	
F-451006LHN-24	0.5 to 6	to 22	1-1/2" F/NPT
F-451001LHN-24	1.0 to 10	4 to 40	1-1/2" F/NPT
F-451002LHN-24	2.0 to 20	7.5 to 75	1-1/2" F/NPT
F-451003LHN-24	3.0 to 30	12 to 115	1-1/2" F/NPT
F-451004LHN-24	4.0 to 40	15 to 155	1-1/2" F/NPT

Models calibrated for Air

MODEL NUMBER	CALIBRATION		ADAPTER SIZE
	GPM	LPM	
F-451001GHN	4 to 40	7 to 70	1" F/NPT
F-451001GHN-24	4 to 40	7 to 70	1-1/2" F/NPT
F-451002GHN	8 to 80	14 to 140	1" F/NPT
F-451002GHN-24	8 to 80	14 to 140	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
 O-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.)

PIPE SIZES

1", 1-1/2" F/NPT
 Brass: 1" F/NPT or Sweat

FLOW RATES

0.5 to 40 GPM
 2 to 155 LPM
 4 to 80 SCFM
 7 to 140 M³/hr

DIMENSIONS

Height: 14-1/2"
 Width: 3-5/16"

F-451 with Protective Shield



F-452N SERIES High Capacity.

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.

F-452N SPECIFICATIONS

Max. Working Pressure 150 psig (10.3 bar) @ 70°F (21°C)
 Max. Fluid Temperature 200°F (93°C) @ 0 PSI
 Full Scale Accuracy +/- 2%
 Meter Body Material Polysulfone
 Union Nuts Glass fiber reinforced Nylon
 Guide Rod Material 316 Stainless Steel
 Options: Hastelloy C-276
 O-Ring Material FKM (Optional EP)
 Max. Pressure Drop 2 psi
 Approx. Shipping Weight 5 lb. (2.27 kg)

PIPE SIZES

2" F/NPT

DIMENSIONS

Height: 18-7/8"
 Width: 4-5/8"

FLOW RATES

2 to 175 U.S. GPM
 8 to 675 LPM
 4 to 240 SCFM
 7 to 400 M³/hr

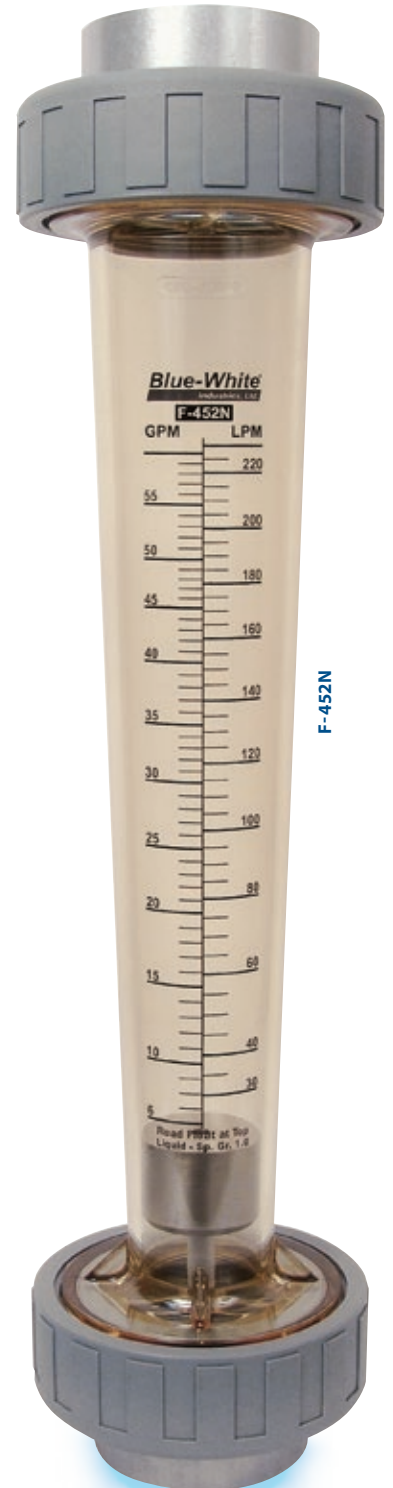
F-452 ORDERING GUIDELINES

MODEL NUMBER	DUAL SCALE RANGE		ADAPTER SIZE
	GPM	LPM	
F-452020LHN	2 to 20	8 to 78	2" F/NPT
F-452060LHN	6 to 60	30 to 230	2" F/NPT
F-452080LHN	8 to 80	40 to 300	2" F/NPT
F-452100LHN	6 to 100	20 to 380	2" F/NPT
F-452130LHN	20 to 130	80 to 500	2" F/NPT
F-452175LHN	25 to 175	100 to 675	2" F/NPT

Models calibrated for Air

MODEL NUMBER	DUAL SCALE RANGE		ADAPTER SIZE
	SCFM	M ³ /hr	
F-452040GHN	4 to 40	7 to 67	2" F/NPT
F-452250GHN	40 to 240	70 to 400	2" F/NPT

F-452N



* 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.

BW DIGI-METER®

PADDLEWHEEL FLOWMETERS The BW DIGI-METER® is the meter of choice when your application requires an Innovative, Accurate and Versatile Digital Flowmeter.

BW DIGI-METER® F-1000 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 Mount Body

Max. Working Pressure300 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-1000 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
 O-ring seals.....FKM (Optional EP)
 Max. pressure drop0 psi (no significant drop)
 Approximate shipping wt.....2 lb. (.91 kg)

with Solvent 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
 O-ring seals.....FKM (Optional EP)
 Max. pressure drop0 psi (no significant drop)
 Approximate shipping wt.....2 lb. (.91 kg)

with Molded In-Line Body

Max. Working Pressure300 psig (20 bar) @ 70° F (21° C)
 Max. Fluid Temperature.....200° F (93° C) @ 0 PSI
 Full scale accuracy.....+/- 2%
 Meter body materialPolysulfone
 Sensor/Paddle/Axle material...PVDF
 O-ring seals.....FKM (Optional EP)
 Max. pressure drop8 psi (varies per model)
 Approximate shipping wt.....2 lb. (.91 kg)

with Machined In-Line Body

Max. Working Pressure300 psig (20 bar) @ 70° F (21° C)
 Max. Fluid Temperature.....200° F (93° C) @ 0 PSI
 Full scale accuracy.....+/- 2%
 Sensor/Paddle/Axle material...PVDF
 O-ring seals.....FKM (Optional EP)
 Max. pressure drop8 psi (varies per model)
 Approximate shipping wt.....5 lb. (2.31 kg)



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

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



BW DIGI-METER® F-1000 WITH MOLDED IN-LINE BODY
 PIPE SIZES
 1/4", 3/8", 1/2", 3/4", 1", 2" M/NPT



BW DIGI-METER® F-1000 WITH MACHINED IN-LINE BODY
 PIPE SIZES
 1/4", 3/8", 1/2", 3/4", 1", 2" F/NPT

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 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.



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 WITH SADDLE MOUNT

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



BW DIGI-METER® F-2000 WITH TEE BODY

PIPE SIZES
1", 1-1/2", 2", 3"

F-2000 SPECIFICATIONS

with Saddle Mount & Solvent TEE 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)
	140°F (60°C) @ 0 PSI
	(all PVC saddles and TEE fittings)

Note: Temperatures rating of F-1000 only. Actual pipe rating may vary.

Full Scale Accuracy	+/- 2%
Sensor/Paddle/Axle Material	PVDF
O-ring Seals	FKM
Max. Pressure Drop	0 psi (no significant pressure drop)
Approx. Shipping Weight	4lb. (1.8 kg)

with Molded In-Line Body

Max. Working Pressure	300 psig (20 bar) @ 70°F (21°C)
Max. Fluid Temperature	200°F (93°C) @ 0 PSI
Full Scale Accuracy	+/- 2%
Sensor/Paddle/Axle Material	PVDF
O-ring Seals	FKM
Max. Pressure Drop8 psi (varies per model)
Approx. Shipping Weight	4lb. (1.8 kg)

with Machined In-Line Body

Max. Working Pressure	300 psig (20 bar) @ 70°F (21°C)
Max. Fluid Temperature	200°F (93°C) @ 0 PSI
Full Scale Accuracy	+/- 2%
Sensor/Paddle/Axle Material	PVDF
O-ring Seals	FKM
Max. Pressure Drop8 psi (varies per model)
Approx. Shipping Weight	5 lb. (2.3 kg)



BW DIGI-METER® F-2000 WITH MACHINED IN-LINE BODY

PIPE SIZES
3/8", 1/2", 3/4", 1", 1-1/2", 2" F/NPT

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 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 FLOW MONITORING SYSTEM

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

Max. Working Pressure.....300 psig (20 bar) @ 70°F (21°C)

Max. Fluid Temperature.....200°F (93°C) @ 0 PSI
(In-Line Polypro and PVDF saddles)
140°F (60°C) @ 0 PSI
(PVC saddles and TEE fittings)

Note: Temperatures rating of F-2000 only. Actual pipe rating may vary.

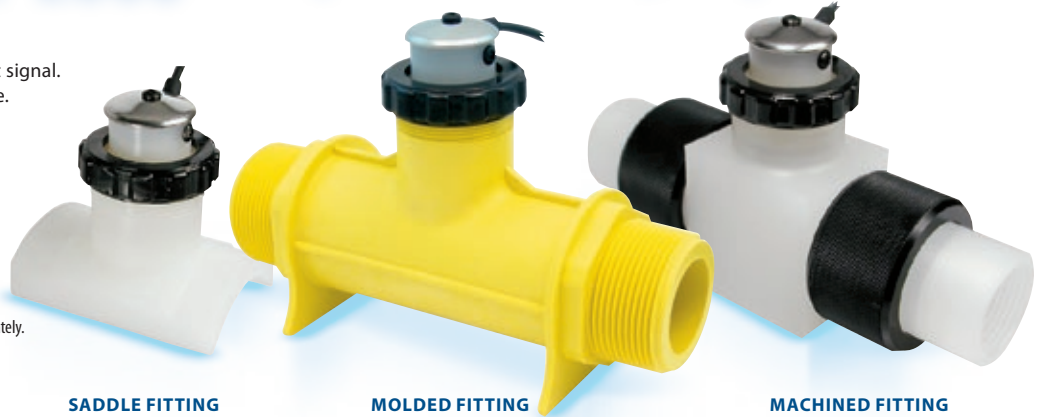
Power RequirementsFH: 6-24 VDC, AC/DC transformer sold separately.
FC: None

Full Scale Accuracy +/- 1%

Sensor/Paddle/Axle Material PVDF

O-ring SealsFKM (Optional EP)

Approx. Shipping Weight....2 lb. (0.9 kg)

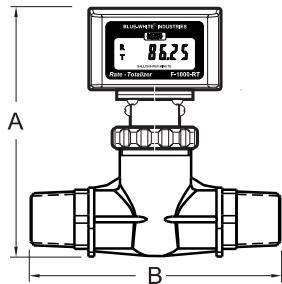


SADDLE FITTING

MOLDED FITTING

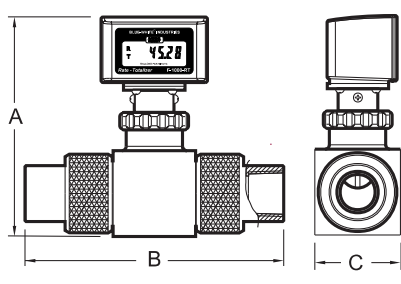
MACHINED FITTING

BW DIGI-METER® F-1000 & F-2000 Dimensions



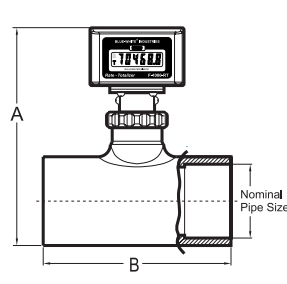
F-1000 with
MOLDED In-Line Body

PIPE SIZE	A	B
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"



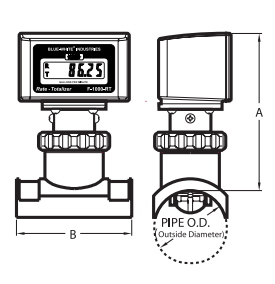
F-1000 with
MACHINED In-Line Body

PIPE SIZE	A	B	C
3/8" FPT	6-3/8"	7-1/2"	2-1/2"
1/2" FPT	6-3/8"	7-1/2"	2-1/2"
3/4" FPT	6-3/8"	7-1/2"	2-1/2"
1" FPT	6-3/8"	7-1/2"	2-1/2"
1-1/2" FPT	6-5/8"	9-1/2"	2-1/2"
2" FPT	7"	11-1/2"	3"



F-1000 with
SOLVENT TEE Body

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

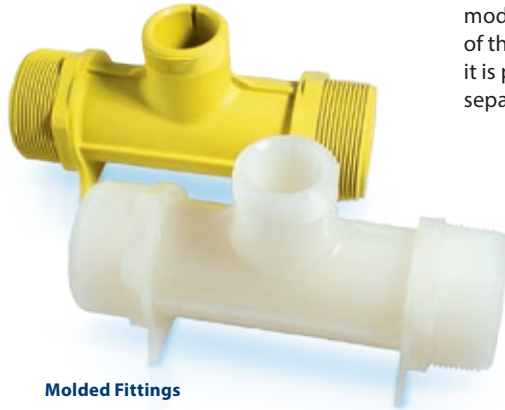


F-1000 with
SADDLE MOUNT Body

PIPE SIZE (mm)	A	B
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"

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 Fittings

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

Max. PSI300 psig (20 bar) @ 70° F (21° C)

Max. Temp200° F (93° C) @ 0 PSI

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

PIPE SIZES: 3/8", 1/2", 3/4", 1", 1-1/2", 2" M/NPT



Saddle 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.
- No added pressure drop to system.

SADDLE SPECIFICATIONS

Max. PSI300 psig (20 bar) @ 70° F (21° C)

Max. Temp200° F (93° C) @ 0 PSI (PVDF)

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



Machined Fittings

MACHINED IN-LINE FEATURES

- Machined from solid bar and sheet stock.
- Union and F/NPT pipe adapter connections for easy installation.
- Internal gland o-ring adapter seals provide greater protection against installation misalignment and vibration.
- Polypropylene fittings for standard applications.
- PVDF material for highly corrosive applications.

MACHINED IN-LINE SPECIFICATIONS

Max. PSI300 psig (20 bar) @ 70° F (21° C)

Max. Temp200° F (93° C) @ 0 PSI

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

PIPE SIZES: 3/8", 1/2", 3/4", 1", 1-1/2", 2" F/NPT

TEE FEATURES

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

TEE SPECIFICATIONS

Max. PSI

316 SS TEE300 psig (20 bar) @ 70° F (21° C)

PVC TEE200 psig (13.8 bar) @ 70° F (21° C)

Max. Temp

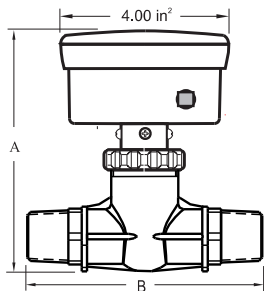
316 SS TEE200° F (93° C) @ 0 PSI

PVC TEE140° F (60° C) @ 0 PSI

PIPE SIZES: 1", 1-1/2", 2", 3"

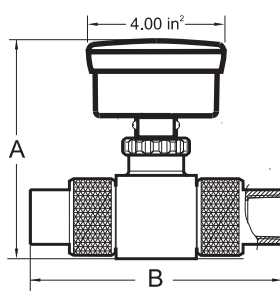


TEE Fittings



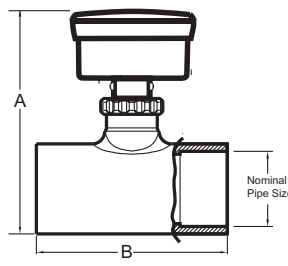
F-2000 with MOLDED In-Line Body

PIPE SIZE	A	B
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"



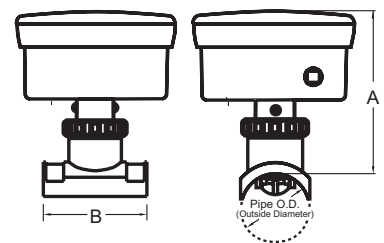
F-2000 with MACHINED In-Line Body

PIPE SIZE	A	B
3/8" FPT	6-3/8"	7-1/2"
1/2" FPT	6-3/8"	7-1/2"
3/4" FPT	6-3/8"	7-1/2"
1" FPT	6-3/8"	7-1/2"
1-1/2" FPT	6-5/8"	9-1/2"
2" FPT	7-1/8"	11-1/2"



F-2000 with SOLVENT TEE Body

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



F-2000 with SADDLE MOUNT Body

PIPE SIZE (mm)	A	B
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"



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