

# Blue-White®



**VARIABLE AREA FLOWMETERS F-461**



**DIGI-FLO F-2000**

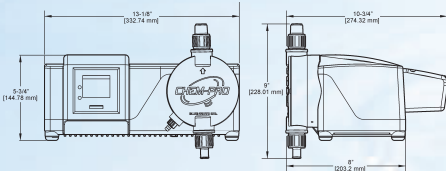


**FLEXFLO A-100NV**



QUALITY  
PERFORMANCE  
INNOVATION

**Introducing for 2007**



**CHEM-PRO C-3 Specifications:**

- Max. Working Pressure ..... 175 psig (12.1 bar)
- Max. Fluid Temperature ..... 130° F (54° C)
- Max. Ambient Temperature... 14° to 110° F / -10° to 43° C
- Output Adjustment Range... 1-100% in 1% increments
- Duty Cycle..... Continuous
- Max. Viscosity..... 1,500 Centipoise
- Max. Suction Lift..... 15 ft. Water 0 psig
- Enclosure..... NEMA 4X, (IP66)
- Voltage (amp draw)..... 115VAC/60Hz, 1ph (2.1 amp max)  
230VAC/60Hz, 1ph (1 amp max)  
220VAC/50Hz, 1ph (1.5 amp max)  
240VAC/50Hz, 1ph (1 amp max)
- Power Cord Plug Type..... 115VAC/60Hz = NEMA 5/15 (USA)  
230VAC/60Hz = NEMA 5/15 (USA)  
220VAC/50Hz = CEE 7/III (EUROPE)  
240VAC/50Hz = CEE 7/III (U.K.)
- Approx. Shipping Weight .... 29lb.

**CHEM-PRO C-3 Materials of Construction:**

- Wetted Components:**
- Diaphragm..... Teflon®, (Teflon® coated Hypalon®)
  - Pump Head..... PVDF (natural color)
  - Pump Head Adapters..... PVDF (natural color)
  - Injection / Check Valve
  - Body & Insert..... PVDF (natural color)
  - Check Ball..... Ceramic
  - Spring..... Hastelloy C-276
  - Ball Seat O-ring..... Viton® (optional EP)
  - Static Seal O-ring..... Viton® (optional EP)
  - Footvalve / Strainer..... PVDF (natural) / Polypropylene (grey)
  - Suction Tubing (12 feet)..... PVC (clear)
- Non-Wetted Components:**
- Enclosure..... 413 Aluminum (powder coated)
  - Pump Head Cover..... 413 Aluminum (powder coated)
  - Cover Screws..... 300 Stainless Steel
  - Motor Shaft..... Nickel plated steel
  - DFD System Sensor Pins..... Hastelloy C-276
  - Power Cord..... 3 conductor, SJTW-A Water-resistant



## DIAPHRAGM METERING PUMP

**CHEM-PRO C-3 Features Include:**

- PVDF double ball valves.
- Outputs to 42.5 GPH (2,700 ML/Min, 160.88 LPH, 1027 GPD).
- Output pressures to 175 PSI.
- Extra set of brushes are stored inside of the pump housing.
- Operator friendly digital touch pad.
  - Easy to read Back-Lit LCD display.
  - Display percentage of motor speed
  - Display Diaphragm Failure Alarm.
- DFD, Built-in Leak Detection system. Senses a chemical leak in the pump head, shuts off the pump.
- Priming / Degassing valve built into the pump head.
- Housing made of durable, chemical resistant, powder coated Aluminum.
- Injection fitting supplied with each pump.
- Footvalve supplied with each pump.
- Suction tubing, 10 feet, supplied with each pump.
- Washdown enclosure.
- Brush life is 3,400 hours.

- ✓ Digital Control
- ✓ Diaphragm Failure Detection System
- ✓ Variable Speed
- ✓ Nema 4X (washdown)
- ✓ IP66
- ✓ Two Year Warranty

**Your CHEM-PRO Pump Package Includes:**

- ✓ Priming valve / pressure relief valve (located on pump head).
- ✓ Pump head adapters
  - Barbed, 1/2" tubing.
  - Threaded, 1/2" male NPT (2 pieces).
  - Threaded, 1/2" female NPT (2 pieces).
- ✓ Footvalve / Strainer with 1/2" ceramic ball and 1/2" barbed adapter (optional 1/2" male NPT adapter).
- ✓ Injection Fitting with 1/2" ceramic ball and one 1/2" barbed adapter (optional 1/2" male NPT adapter).
- ✓ Suction tubing, 10 feet of 1/2" clear PVC tubing.
- ✓ Mounting brackets (2) w/screws.

Available Models	Models	Digital Display	DFD	FVS	4-20 mA	0-10 VDC	Pulsed	Alarm Relay 3 Amp
	C3F	✓	✓	✓				✓
	C3V	✓	✓	✓	✓	✓	✓	✓

# CHEM-FEED® METERING INJECTORS

CHEM-FEED C-1500N Series injectors are fitted with Blue-White's Exclusive Heavy Duty Pump Head. This pump head begins with Cartridge Valves constructed of tough PVDF plastic. Each valve has two ceramic ball checks and is double sealed with AFLAS "o" rings. The double ball valve design gives the pump head enhanced priming capabilities, and makes it exceptional for purging air and gas. Bottom and top valves are interchangeable for quick, easy and economic servicing.

Three models of the CHEM-FEED C-1500N are offered. The STANDARD unit has a top mounted stroke adjustment (feed control) for accurate, consistent chemical injection. For even more precise adjustment the DELUXE C-1500N has a built-in percentage controller, both the stroke of the diaphragm and the controller can be adjusted. The MICRO-FEED C-1500N has a diaphragm 50% smaller than the Standard C-1500N. This design offers excellent accuracy when injecting small amounts of chemical.

## CHEM-FEED® BENEFITS:

- Superior pump head design.
- Double-ball inlet and outlet cartridge type ceramic check valves.
- PVDF valve body and fitting, ceramic balls, Viton and TFE/P o-rings.
- Teflon coated EP diaphragm.
- All ball bearing, permanently lubricated gear motor for smooth, powerful operation.
- PVDF suction (foot) valve with Viton 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.

## 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.

## C-1500N ORDERING GUIDELINES

### STANDARD MODEL with Stroke Adjustment

MODEL NUMBER	MAX OUTPUT @ 0 PSI				Max Strokes Per minute	MAX PSI
	GPD	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	MAX OUTPUT @ 0 PSI				Max Strokes Per minute	MAX PSI
	GPH	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



STANDARD C-1500N



## C-1500N Specifications:

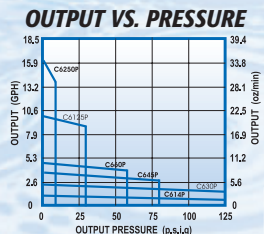
<b>Max. Working Pressure</b> .....	125 psig (8.6 bar)	<b>Enclosure</b> .....	Acceptable for outdoor use. NEMA 3R (IP23)
<b>Max. Fluid Temperature</b> .....	130° F (54° C)	<b>Amperage Draw</b> .....	115V/60Hz .....start .74 / run .45 230V/60Hz .....start .36 / run .21 24V/60Hz .....start 3.4 / run 2.0 220V/50Hz .....start .31 / run .19
<b>Ambient Temp Range</b> .....	14° to 110° F (-10° to 43° C)	<b>O-ring Seals</b> .....	Viton and TFE/P
<b>Max. Viscosity</b> .....	1000 Centipoise	<b>Dimensions</b> .....	9-1/16" H x 4-1/2" W x 5-3/4" D
<b>Max. Suction Lift</b> .....	10 ft. water	<b>Approx. Shipping Weight</b> ...	8 lb. (3.6 kg)
<b>Output Accuracy</b> .....	+/- 10% of max. (water 0 psi, 5' suction lift)		
<b>Turndown Ratio</b> .....	20:1 Standard models 200:1 Deluxe models		

# CHEM-FEED® C-600P

The C-600P sets the standard for simple and efficient design and operation. Moving parts are kept to a minimum, helping make the unit practically maintenance-free. C-600P metering injectors have a front mounted head and an easy to adjust, side mounted, cam-type diaphragm stroke adjustment (feed rate control).

## C-600P BENEFITS:

- Easy access, side mounted mechanical output/feed rate adjustment.
- Double-ball inlet and outlet cartridge type ceramic check valves.
- PVDF valve body and fitting, ceramic balls, Viton and TFE/P o-rings.
- Superior pump head design of precision molded polypropylene.
- Teflon coated EP diaphragm.
- All ball bearing, permanently lubricated gear motor for smooth, powerful operation.
- Polypropylene injection check valve with Viton and TFE/P o-rings and spring loaded ceramic ball seal.
- PVDF suction (foot) valve with Viton 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.



## CHEM-FEED C-600P

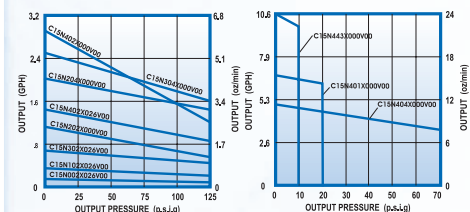


- Efficient, dependable design - each unit is factory tested.
- Private labeling for volume purchasers.

## C-600P Specifications:

<b>Max. Working Pressure</b> .....	125 psig (8.6 bar)
<b>Max. Fluid Temperature</b> .....	130° F (54° C)
<b>Ambient Temp Range</b> .....	14° to 110° F (-10° to 43° C)
<b>Max. Viscosity</b> .....	1000 Centipoise
<b>Max. Suction Lift</b> .....	10 ft. water
<b>Output Accuracy</b> .....	+/- 10% of max. (water 0 psi, 5' suction lift)
<b>Turndown Ratio</b> .....	27:1 Standard models
<b>Amperage Draw</b> .....	115V/60Hz ...starting .74 / running .45 230V/60Hz ...starting .36 / running .21 24V/60Hz ...starting 3.4 / running 2.0 220V/50Hz ...starting .31 / running .19
<b>Dimensions</b> .....	6-1/2" H x 6-5/8" W x 5-3/8" D
<b>Approx. Shipping Weight</b> ....	8 lb. (3.6 kg)

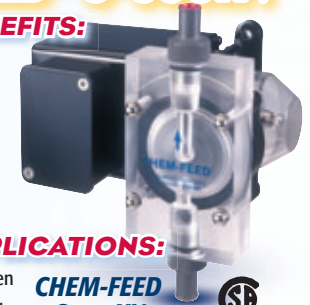
## C-1500N OUTPUT VS. PRESSURE



# CHEM-FEED® C-600HV

## C-600HV BENEFITS:

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



## C-600HV APPLICATIONS:

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

## CHEM-FEED C-600HV

### C-600HV DIMENSIONS

H: 8" W: 7" Depth: 6 1/2" Ship Wt.: 8 lbs. approx.

## C-600P ORDERING GUIDELINES

### STANDARD MODEL with Stroke Adjustment

MODEL NUMBER	MAX OUTPUT @ 0 PSI				MAX PSI
	GPD	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-600HV ORDERING GUIDELINES

### STANDARD MODEL with Stroke Adjustment

MODEL NUMBER	MAX OUTPUT @ 0 PSI				MAX PSI
	GPD	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

\* Viton® is a registered trademark of DuPont.

# CHEM-FEED® C-1700N DUPLEX HEAD INJECTOR

## C-1700N BENEFITS:

- Two independent pump heads.
- Each head has double-ball inlet and outlet cartridge type ceramic check valves.
- PVDF valve body and fitting, ceramic balls, Viton and TFE/P o-rings.
- Teflon coated EP diaphragm.
- All ball bearing, permanently lubricated gear motor for smooth, powerful operation.
- PVDF suction (foot) valve with Viton 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.

## C-1700N 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-1700N ORDERING GUIDELINES

### STANDARD MODEL with Stroke Adjustment

MODEL NUMBER	MAX OUTPUT @ 0 PSI				Max Strokes Per minute	MAX PSI
	GPD	GPH	LPH	OZ/MIN		
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

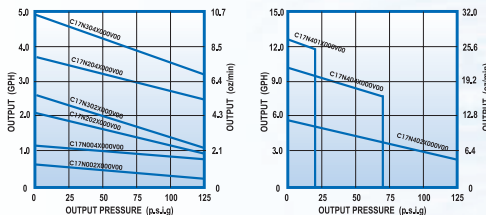
## C-1700N Specifications:

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
Enclosure .....	Acceptable for outdoor use. NEMA 3R (IP23)
Amperage Draw .....	115V/60Hz ..starting .74 / running .45 230V/60Hz ..starting .36 / running .21 24V/60Hz ....starting 3.4 / running 2.0 220V/50Hz ..starting .31 / running .19
O-ring Seals .....	Viton and TFE/P
Dimensions .....	9-1/2" H x 7-1/2" W x 4" D
Approx. Shipping Weight ....	11 lb. (5.0 kg)



Please Note: Outputs given are a combined total of both pump heads using pure water at zero gauge pressure. All C1700N are shipped complete with accessory package. Ordering matrix available on request, Order #80000-301.

## C-1700N OUTPUT VS. PRESSURE



# CHEM-FEED® STAR SYSTEM

## STAR SYSTEM BENEFITS:

- The Star System is equipped with the C-1500N model of your choice - Standard or Deluxe.
- All necessary accessories are included.
- 3 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.

## STAR SYSTEM ORDERING GUIDELINES

### STANDARD MODELS with 7, 15, and 30 GALLON Tanks

MODEL NUMBER	MAX OUTPUT @ 0 PSI				Max Strokes Per minute	MAX PSI
	GPD	GPH	LPH	OZ/MIN		
T15N0(*)2X026V00(***)	3.4	0.2	0.5	0.3	14	125
T15N1(*)2X026V00(***)	8.3	0.3	1.3	0.7	30	125
T15N3(*)2X026V00(***)	16.3	0.6	2.5	1.4	60	125
T15N2(*)2X000V00(***)	26.6	1.1	4.2	2.4	45	125
T15N4(*)2X026V00(***)	34.2	1.4	5.4	3.0	125	125
T15N2(*)4X000V00(***)	49.0	2.0	7.7	4.3	45	125
T15N3(*)4X000V00(***)	57.7	2.4	9.1	5.1	60	125
T15N4(*)2X000V00(***)	68.4	2.8	10.8	5.9	125	125
T15N4(*)4X000V00(***)	119.7	4.9	18.9	10.6	125	70
T15N4(*)1X000V00(***)	155.9	6.4	24.6	13.8	125	20
T15N4(***)3X000V00(***)	228.1	9.5	36.0	20.2	125	10

### DELUXE MODELS with 7, 15, and 30 GALLON Tanks

MODEL NUMBER	MAX OUTPUT @ 0 PSI				Max Strokes Per minute	MAX PSI
	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

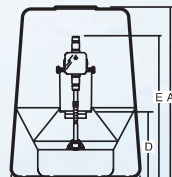
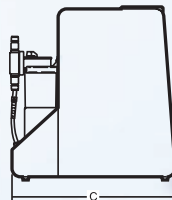
Note: 220V/50Hz units deliver approximately 20% less output

### GALLON OPTIONS

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

### STAR TANKS ONLY

MODEL NUMBER	CAPACITY GAL.	LITER	HEIGHT		WIDTH		DEPTH INCH. CM.	SHIP WEIGHT LBS. KGS		
			INCH.	CM.	INCH.	CM.				
STAR 7	7	26.5	17-1/2"	44.5	12"	30.5	16"	41	19	.9
STAR 15	15	57	22"	56	15-1/2"	38	19-1/2"	50	27	12
STAR 30	30	113.5	27"	69	20"	51	24"	61	35	16



CHEM-FEED 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)

\* Viton® is a registered trademark of DuPont.

# CHEM-FEED® C-1100 SERIES DIAPHRAGM PUMPS

## Fixed Speed and Variable Speed Units



**STANDARD X MODEL - FIXED SPEED UNIT**  
with mechanical Stroke Length Control



**DELUXE C MODEL - FIXED SPEED UNIT**  
with Stroke Length & Time Interval Control



**DIGITAL E MODEL - FIXED SPEED UNIT**  
with Stroke Length & Pulse Input Batching  
& Time Interval Control



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



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

### CHEM-FEED® C-1100 Variable Speed Unit Features:

#### TWO OUTPUT CONTROL OPTIONS

**DELUXE F MODELS** feature **stroke length** and analog **speed control**. The pump's speed is adjustable from 5-100% of the maximum using a dial knob style control. 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.

### CHEM-FEED® C-1100 Fixed Speed Unit Features:

#### THREE OUTPUT CONTROL OPTIONS

**STANDARD X MODELS** feature a quick adjusting, high accuracy mechanical **stroke length control**. The pump's efficient design 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 sec.) The high frequency of the repeating 5 second time interval, and the precision 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 thru 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 input signals can be used to remotely vary the interval timer's on-time adjustment.

#### C-1100 Fixed Speed Unit Benefits

- Blue-White's exclusive 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.

#### C-1100 Fixed Speed Unit 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 Benefits:

- Blue-White's exclusive 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.

#### C-1100 Variable Speed 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 Unit 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
Amperage Draw .....	115V/60Hz ..start .50 / run .35 230V/60Hz ..start .25 / run .18 220V/50Hz ..start .35 / run .23
O-ring Seals .....	Viton and TFE/P
Dimensions .....	6-1/4" H x 10" W x 9-1/4" D
Approx. Shipping Weight .....	12 lb. (5.4 kg)

#### CAPACITY and PRESSURE Capabilities

For complete ordering information, consult the factory or it's authorized agent.

#### C-1100 Fixed Speed Unit 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
Amperage Draw .....	115V/60Hz ..start 1.37 / run 1.95 230V/60Hz ..start 0.57 / run 0.37 220V/50Hz ..start 0.49 / run 0.34
O-ring Seals .....	Viton and TFE/P
Dimensions .....	6-1/4" H x 10" W x 9-1/4" D
Approx. Shipping Weight .....	10 lb. (4.2 kg)

#### C-1100 ORDERING GUIDELINES

##### FIXED and VARIABLE SPEED MODELS

MODEL NUMBER	MAX OUTPUT @ 0 PSI				Max Strokes Per minute	MAX PSI
	GPD	GPH	LPH	OZ/MIN		
C11(*3(**)4X000V00	57.7	2.4	5.1	5.1	60	150
C11(*4(**)4X000V00	119.7	4.9	10.6	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, I=Deluxe C, E=Digital E, F=Deluxe F, V=Digital V

##### VOLTAGE OPTIONS

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

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

\* Viton® is a registered trademark of DuPont.

# FLEXFLO® A-100N PERISTALTIC PUMPS

## Fixed Speed and Variable Speed Units



**FIXED SPEED UNIT**  
**A-100NC STANDARD MODEL**  
with Time Interval Control



**VARIABLE SPEED UNIT**  
**A-100NF STANDARD MODEL**  
with Percentage Speed Control



**FIXED SPEED UNIT**  
**A-100NE DIGITAL MODEL**  
with Pulse Input Batching  
& Time Interval Control



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



### FLEXFLO® A-100NC Features:

- Self priming against maximum line pressure.
- Outputs to 95.1 GPD, pressures to 100 PSI.
- Tube Failure Detection System (TFD).
- Compatible with Blue-White's Micro-Flow 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 effected by changes in back pressure.
- Durable housing of rugged valox.
- Advanced cooling system.

### FLEXFLO® A-100NE Features:

- Self priming against maximum line pressure.
- Outputs to 95.1 GPD, pressures to 100 PSI.
- 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-100NF Features:

- Self priming against maximum line pressure.
- Outputs to 95.1 GPD, pressures to 100 PSI.
- Output amount is not effected by changes in back pressure.
- Tube Failure Detection System (TFD).
- Compatible with Blue-White's Micro-Flow 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® A-100NV Features:

- Self priming against maximum line pressure.
- Outputs to 95.1 GPD, pressures to 100 PSI.
- Output amount is not effected by changes in back pressure.
- Tube Failure Detection System (TFD).
- 1 amp alarm output relay switch.
- Compatible with Blue-White's Micro-Flow 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 Fixed Speed Unit 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
O-ring Seals	Viton
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 Unit 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
O-ring Seals	Viton
Dimensions	6-1/4" H x 10" W x 9-1/4" D
Approx. Shipping Weight	12 lb. (5.4 kg)

### 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 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

### CAPACITY and PRESSURE Capabilities

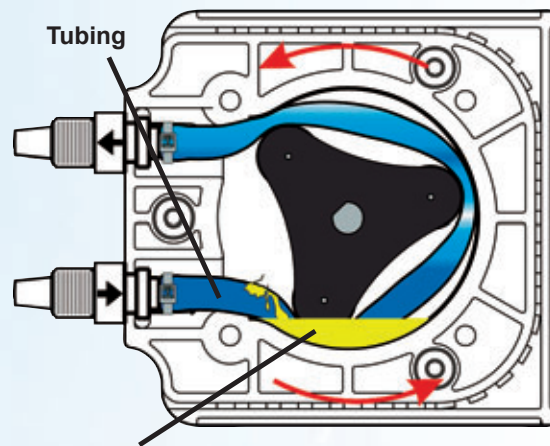
For complete ordering information, consult the factory or it's authorized agent.

\* Viton® is a registered trademark of DuPont.

**Exclusive  
PATENTED  
Technology**

# TFD System Tube Failure Detection

The TFD System is breakthrough technology for Peristaltic Metering Pumps. Blue-White was the first to introduce this type of feature on peristaltic pumps, and the only manufacturer able to offer the Patented TFD System (U.S. Patent 7,001,153). 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 A-100N Series Peristaltic Metering Pumps.



Chemical is immediately detected in the pumphead. The pump shuts down.



STAR III

## FLEXFLO® STAR III Peristaltic Metering Pump & Tank System

### STAR III Features:

- The Star System 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.
- 3 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.



	DIMENSIONS - INCH (CM)			
	DIM 'A'	DIM 'B'	DIM 'C'	SHIP WT.
7 GALLON TANK	20.00 (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)



FLEXFLO  
A-1600N

## FLEXFLO® A-1600N for OEM's

### FLEXFLO® A-1600N Features:

- Economical and versatile basic design.
- No valves 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 affected by changes in back pressure.
- Clear pump head cover allows viewing of pump operation.
- OEM design modifications.

### A-1600N Specifications:

Max. Working Pressure .....	25 psig (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 duty
Turndown Ratio .....	Not adjustable
Amperage Draw .....	115V/60Hz .....start .74 / run .45 230V/60Hz .....start .36 / run .21 220V/50Hz .....start .31 / run .19 24V/60Hz .....start 3.4 / run 2.0
Dimensions .....	4-3/4" H x 10" W x 6-1/4" D
Approx. Shipping Weight ....	8 lb. (3.6 kg)
Max. Output at any Pressure..	GPD=112; GPH=4.70, LPH=17.70

### FLEXFLO® A-1600N Applications:

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

\* Viton® is a registered trademark of DuPont.

# MICRO-FLOW VERIFICATION SYSTEM

## An Effortless Means of Accessing Critical Information

Micro-Flow Sensor  
FV-100-6V



### Micro-Flow Specifications:

Max. Working Pressure .....	150 psig (10.3 bar) @ 70°F (21°C)
Max. Fluid Temperature .....	200°F (93°C) @ 0 PSI
Body, Paddle, Axle Material ..	PVDF
Connector Material .....	3/8" Tubing connectors: PVC
O-ring Seals .....	Viton
Compression Seal to Pump ..	PVC
Approx. Shipping Weight ....	1 lb. (.45 kg)

### Micro-Flow Sensor Applications:

#### 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 new 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-FLOW may be installed directly into the pumps discharge tubing, inline in the system after the pump, or conveniently mounted to a panel.

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

The **Micro-Flow 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.

### Micro-Flow Features:

- Model Variations include: Sensor Only; and Panel Mount Display, which includes 25' of Cable.
- Six Digit LCD, up to Four decimal points
- 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
- Weather resistant Valox PBT enclosure.
- LCD is not recommended for direct sunlight installation

### MICRO-FLOW ORDERING GUIDELINES

#### MODELS with PVC LENS CAP

MODEL NUMBER	OPERATING FLOW RANGE		
	GPD	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

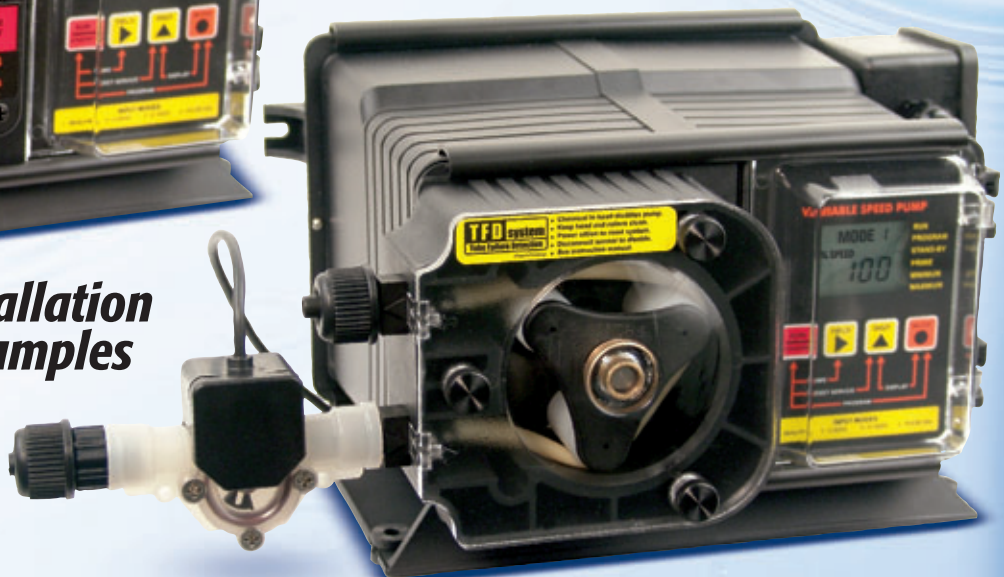
FV-101-6V	11.4 to 114	1 to 10	30 to 300
FV-201-6V	38.0 to 380	3.5 to 35	100 to 1000
FV-301-6V	76.0 to 760	7 to 70	200 to 2000
FV-401-6V	114 to 1440	10 to 100	300 to 3000
FV-501-6V	190 to 1900	17 to 170	500 to 5000
FV-601-6V	266 to 2660	24 to 240	700 to 7000



Micro-Flow Sensor  
FV-200-6V  
mounted on C-1100V

### Installation Examples

Micro-Flow Sensor  
FV-100-6V  
mounted on A-100NV



# MODEL PC: PROPORTIONAL FEED SYSTEM

## Model PC System Features:

- 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.
- NOTE** • When purchased as a Flowmeter & Pump System Kit, the system is factory wired and tested for easy installation.
- Hundreds of Flowmeter and pump combinations to choose from.

## 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 DIGI-FLO® F-2000-PC Flowmeter:

**PLEASE NOTE:** 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" - 2"
- 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.



**OPTION 1 - C-1500N Diaphragm Pump System**  
 F-2000 FLOWMETER MODEL NUMBER: PCS11MP2GM2-Z  
 C-1500N PUMP MODEL NUMBER: C15N402Z00V00  
 (Tank sold separately)

### 2 Select your Metering Pump:

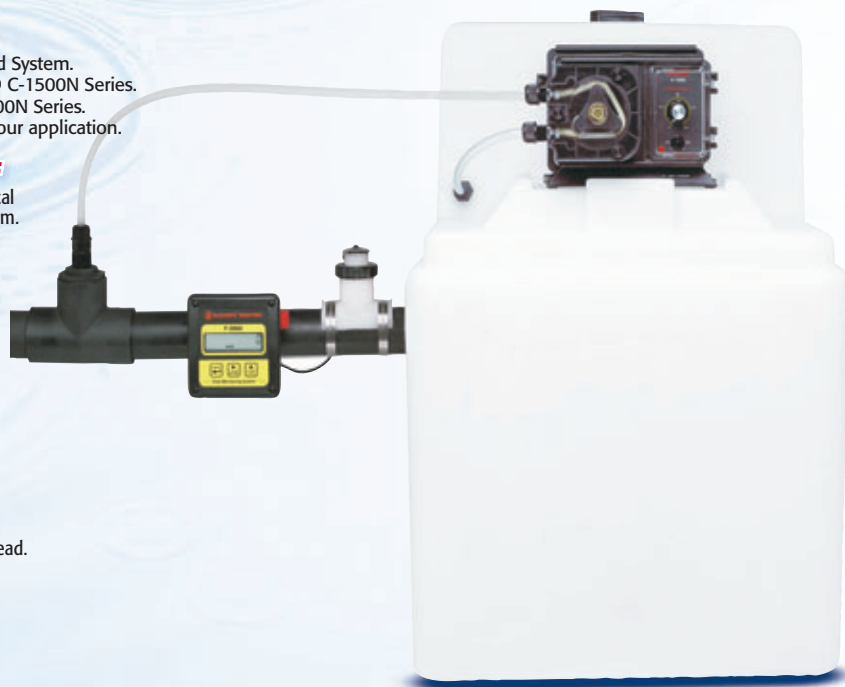
Virtually any metering pump can be used for your Proportional Feed System. For diaphragm pump applications, we recommend the CHEM-FEED C-1500N Series. For peristaltic pump applications, we recommend the FLEXFLO A-100N Series. Contact the factory for assistance in specifying the best model for your application.

#### OPTION 1: CHEM-FEED C-1500N Diaphragm 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.

#### 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.



**OPTION 2 - A-100N Peristaltic Pump System**  
 F-2000 FLOWMETER MODEL NUMBER: PCP120K8GM1-ZW  
 A-100N PUMP MODEL NUMBER: A1N10A-6T  
 (Tank sold separately)

### 3 Select your Metering Pump:

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, hassle free installation.



# VARIABLE AREA FLOWMETERS

## F-400 SERIES of Machined In-Line Models



### F-430N SERIES

**Pipe Sizes:**  
1 1/2" M/NPT  
and 2" F/NPT

**Calibration Range:**  
4 to 100 USGPM  
15 to 375 LPM

**Dimensions**  
Height: 14"  
Width: 3"



### F-420N SERIES

**Pipe Sizes:**  
1" and  
1 1/2" M/NPT

**Calibration Range:**  
5 to 50 USGPM  
20 to 200 LPM

**Dimensions**  
Height: 12"  
Width: 2"



### F-410N SERIES

**Pipe Sizes:**  
3/4" and  
1" F/NPT

**Calibration Range:**  
1 to 20 USGPM  
4 to 80 LPM  
4 to 80 SCFM  
8 to 135 M<sup>3</sup>HR

**Dimensions**  
Height: 11"  
Width: 1 3/4"



### F-400N SERIES

**Pipe Sizes:**  
1/4", 3/8" and  
1/2" F/NPT

**Calibration Range:**  
0.025 to 5 GPM  
0.1 to 20 LPM  
.2 to 20 SCFM  
.4 to 34 M<sup>3</sup>HR

**Dimensions**  
Height: 8 3/16"  
Width: 1 1/4"

### F-400 Series Features:

- Tough machined acrylic meter body, highly polished to a clear glass-like finish.
- Direct reading permanent scale.
- Contrasting white back reflector for easy reading.
- Sturdy adapters with high grade Viton o-ring seals.
- Standard models have #316 stainless steel float guide rods. (Optional K-series have Hastelloy C-276 float guide rods).
- Standard models have #316 Stainless Steel or PVC float depending on calibration. (Optional K-series have Hastelloy C-276 or PVC floats).
- Acceptable in direct sunlight applications.
- Available OEM options: Private labeling, custom calibrations, custom materials.

## F-670 GLASS TUBE FLOWMETER



### F-670 Features:

- Meter body of high quality Borosilicate Glass encased in a tough Polycarbonate shield.
- Rib guided float of #316 Stainless Steel, Teflon or Hastelloy C-276.
- Strong adapters in PVC, PVDF or CPVC.
- Viton® o-ring seals.
- Single scales in GPM or LPM.
- Individual packaging with detailed instructions.

### F-670 Specifications:

Temperature .....	100°F/37°C @ 0 pressure (PVC adapters) 210°F/98°C @ 0 pressure (PVDF adapters)
Pressure .....	150 psig/10.3 Bar @ 70°F/21°C
Full Scale Accuracy .....	± 3%
Meter Body Material .....	Borosilicate Glass
Shield Material .....	Lexan®
Adapter Material .....	PVC, PVDF, CPVC
O-rings .....	Viton
Float Material .....	#316 SS, Hastelloy C or Teflon®, dependent on calibration
Max. Pressure Drop .....	2 psi
Approximate Shipping Wt. ..	2 lbs. (.907 kg.)

**Pipe Sizes:**  
3/8" and 1/2" F/NPT

**Calibration Range:**  
0.1 to 5 U.S. GPM  
0.4 to 20 LPM

**Dimensions**  
Height: 10"  
Width: 1 3/4"

\* Viton® is a registered trademark of DuPont.

## F-650 ARMORED GLASS TUBE FLOWMETER

### F-650 Features:

- Heavy duty meter body construction of #316 Stainless Steel.
- Meter tube of Borosilicate Glass.
- Polycarbonate tube shield.
- Viton® o-ring seals.
- Floats of Glass, Sapphire, #316 Stainless Steel or Carboloy (float material depends on meter calibration).
- Flow Adjustment Valve of #316 Stainless Steel (optional).
- 1/4" F/NPT connections (optional 1/8" F/NPT)

### Calibration Range:

65mm:	0.011 to 1866 ML/Min 0.0003 to 111.9 LPM 0.00001 to 29.586 GPM 0.7 to 58500 CC/Min Air
150mm:	0.100 to 1881 ML/Min 0.0059 to 112.4895 LPM 0.00158 to 29.7188 GPM 11.5 to 59494 CC/Min Air

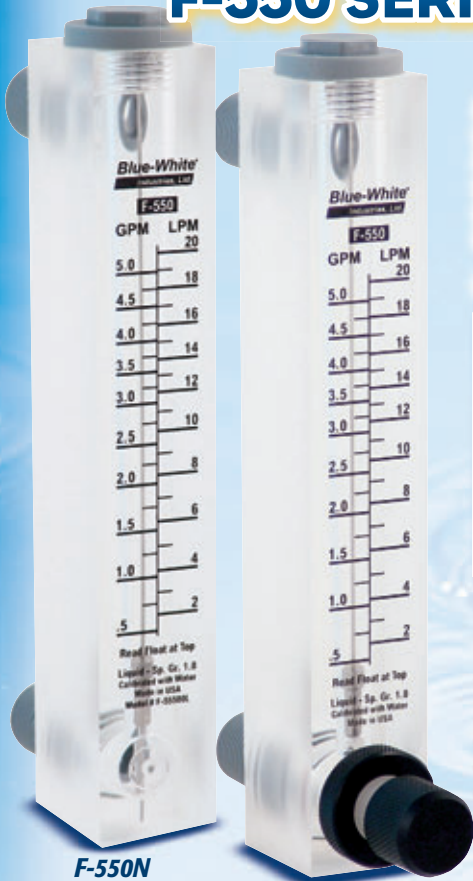
**Pipe Sizes:**  
1/4" F/NPT



### F-650 Specifications:

Temperature .....	250°F/121°C @ 0 pressure
Pressure .....	150 psig/10.3 Bar @ 70°F/21°C
Full Scale Accuracy .....	± 2% full scale
Flow Tube Body Material .....	Heavy wall Borosilicate Glass
Shield Material .....	Polycarbonate
Meter Housing Material .....	Stainless Steel
Adapter Material .....	PVC, PVDF, CPVC
O-rings .....	Viton
Float Material .....	Dependent on flow rate
Max. Pressure Drop .....	2 psi
Approximate Shipping Wt. ..	2 lbs. (.907 kg.)

# F-550 SERIES MACHINED PANEL MOUNT METER



F-550N

F-550A with Integral Flow Adjustment Valve

### F-550 Features:

- Durable, highly polished, one piece machined meter body.
- #316 Stainless Steel floats and float guides.
- Sturdy adapters with Viton® o-ring seals.
- Bulkhead nuts attach directly to inside panel.
- Separate mounting screws are not required.
- Adjustable Flow Control Valve (F-550A only) easy to disassemble. No special tool required, ALL FIELD REPLACEABLE.
- Acceptable in direct sunlight applications.

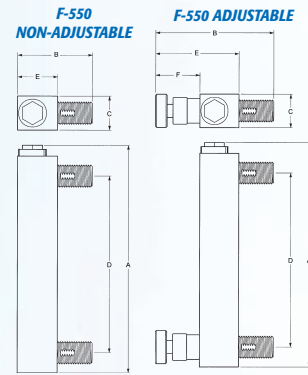
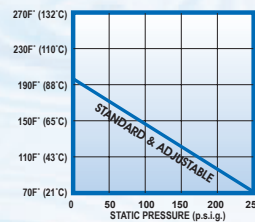
### F-550 Specifications:

Temperature	200°F/93°C @ 0 pressure
Pressure	250 psig/17.2 Bar @70°F/21°C
Full Scale Accuracy	± 5%
Meter Body Material	Machined acrylic
Shield Material	Lexan®
Adapter Material	PVC, PVDF, CPVC
O-rings	Viton
Float Material	#316 SS
Max. Pressure Drop	2 psi full scale
Approximate Shipping Wt.	2 lbs. (.907 kg.)

Pipe Sizes:  
1/4", 3/8", 1/2", 3/4"  
and 1" M/NPT

Calibration Range:  
0.025 to 20 GPM  
0.1 to 75 LPM  
0.1 to 45 SCFM

### F-550 OUTPUT VS. PRESSURE



### 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 1/32"	6 1/2"	1 1/2"	11/16"
F-55376L (3/8")	8 3/8"	2 3/4"	1 1/32"	6 1/2"	1 1/2"	11/16"
F-55500L (1/2")	8 3/8"	2 3/4"	1 1/32"	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 1/8"

### F-550 ADJUSTABLE DIMENSIONS

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

# F-500E SERIES PANEL MOUNT

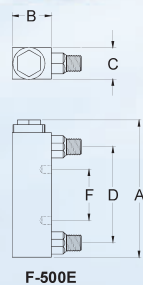
### F-500E Features:

- Impact resistant, one piece machined acrylic meter body.
- #316 Stainless Steel or glass floats (material depends on meter ordered).
- Permanent screen printed scales.
- A wide range of standard calibrations.
- Viton® o-ring seals.
- Excellent Accuracy.
- Acceptable in direct sunlight applications.

### F-500E Specifications:

Temperature	120°F/49°C @ 0 pressure
Pressure	150 psig/10.3 Bar @ 70°F/21°C
Full Scale Accuracy	± 5%
Meter Body Material	Machined acrylic
Adapter Material	PVC
O-rings	Viton
Float Material	#316 SS or Glass
Max. Pressure Drop	2 psi
Approximate Shipping Wt.	1/2 lbs. (.227 kg.)

F-500E



Pipe Sizes:  
1/4" and  
1/8" M/NPT

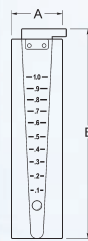
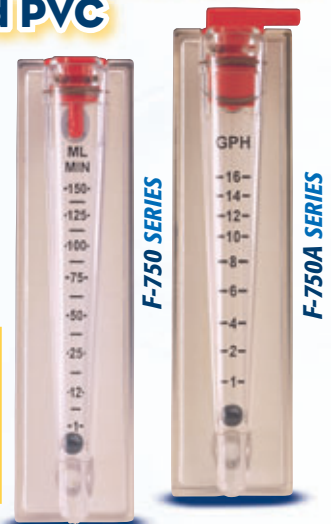
Calibration Range:  
4.0 to 40 OZ/Hour  
0.3 to 20 OZ/Min  
2 to 50 SCFM  
5 to 24 LPM/Air  
1 to 72 GPH  
2 to 300 CFH

Model #	F-500E DIMENSIONS				
	A	B	C	D	F
F-501E	4 1/8"	1 1/4"	1"	3"	1 5/8"
F-502E	4 1/8"	1 1/4"	1"	3"	1 5/8"
F-503E	4 3/8"	1 1/4"	1"	3"	1 5/8"
F-504E	4 3/8"	1 1/4"	1"	3"	1 5/8"
F-505E	4 3/8"	1 1/4"	1"	3"	1 5/8"
F-506E	4 3/8"	1 1/4"	1"	3"	1 5/8"
F-507E	4 3/8"	1 1/4"	1"	3"	1 5/8"
F-508E	4 3/8"	1 1/4"	1"	3"	1 5/8"
F-509E	4 3/8"	1 1/4"	1"	3"	1 5/8"
F-510E	4 3/8"	1 1/4"	1"	3"	1 5/8"
F-511E	4 1/8"	1 1/4"	1"	3"	1 5/8"
F-514E	4 1/8"	1 1/4"	1"	3"	1 5/8"
F-512E	4 1/8"	1 1/4"	1"	3"	1 5/8"
F-513E	4 1/8"	1 1/4"	1"	3"	1 5/8"

# F-750 SERIES PANEL MOUNT Molded PVC

### F-750 Features:

- Designed to connect to 1/4" ID flexible PVC tubing via gluing or clamping.
- Reducer adapters available for 1/8" ID.
- Optional Flow Control Valve.
- Internally molded float guides.
- Single scale liquid flow ranges: GPH, LPM, oz/min, ml/min.
- Single scale air flow ranges: SCFM, SCFH, and cc/min.



### F-750 DIMENSIONS

LTR	Non Adj.	Adjustable
A	1"	1 1/16" MAX.
B	3 15/16"	4 1/8"
C	5/8"	5/8"
D	5/16" DIA.	5/16" DIA.
E	3"	3"

Calibration Range:  
1 to 32 GPH, 0.25 to 70 OZ/Min  
.1 to 3.0 SCFM

Tube Size:  
1/4" O.D.

### F-750 Specifications:

Temperature	100°F/37°C @ 0 pressure
Pressure	75 psig/10 Bar @ 70°F/21°C
Full Scale Accuracy	± 10%
Meter Body Material	PVC
Connections	PVC 1/4" gluing or clamping to flexible tubing
O-rings	Viton
Float Material	#316 SS, Glass, Ceramic, K Monel, Teflon depending on calibration
Max. Pressure Drop	2 psi
Approximate Shipping Wt.	1/2 lbs. (.227 kg.)

\* Viton® is a registered trademark of DuPont.

# POLYSULFONE VARIABLE AREA FLOWMETERS

## High Capacity F-452 SERIES

### F-452 Features:

- 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-452 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	Viton
Options:	EPDM
Max. Pressure Drop	2 psi
Approx. Shipping Weight	5 lb. (2.27 kg)

Pipe Sizes:  
2" F/NPT

Calibration Range:  
2 to 175 U.S. GPM  
8 to 675 LPM  
4 to 240 SCFM  
7 to 400 M<sup>3</sup>/Hr



F-452 SERIES FLOWMETER

## Economic F-440 & F-450 SERIES

### F-450N IN-LINE UNIT

### F-440NEA W/90° ADAPTERS AND ADJUSTMENT VALVE



### F-440 Features:

- 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.
- Standard models have #316 Stainless Steel guide rods. (Optional K-series Hastelloy C-276).
- Standard models have #316 Stainless Steel, Teflon or PVC float. (Optional K-series Hastelloy C-276 or PVC).
- Available OEM options: Private labeling, custom calibrations, custom materials.
- Not recommended for direct sunlight.

### F-450N Features:

- 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 guide rods. (Optional K-series Hastelloy C-276).
- Standard models have #316 Stainless Steel or Teflon float. (Optional K-series Hastelloy C-276 or Teflon).
- Available OEM options: Private labeling, custom calibrations, custom materials.
- Not recommended for direct sunlight.

F-440	Specifications	F-450N
150 psig (10.3 bar) @ 70°F (21°C)	..... Max. Working Pressure	150 psig (10.3 bar) @ 70°F (21°C)
212°F (100°C) @ 0 PSI	..... Max. Fluid Temperature	212°F (100°C) @ 0 PSI
130°F (54°C) @ 0 PSI	..... Models with PVC Float	130°F (54°C) @ 0 PSI
+/- 5%	..... Full Scale Accuracy	+/- 5%
Polysulfone	..... Meter Body Material	Polysulfone
Polysulfone	..... Adapter Material	Polysulfone
Viton	..... O-ring Seals	Viton
2 psi	..... Max. Pressure Drop	2 psi
1/2lb. (.23 kg)	..... Approximate Shipping Wt....	1/2lb. (.23 kg)

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

Pipe Sizes:

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

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

Calibration Range:

0.1 to 10 U.S. GPM  
4 to 40 LPM  
1 to 48 SCFM  
2 to 80 M<sup>3</sup>/Hr

## Versatile F-451 SERIES

### F-451 Features:

- A Heat and Chemical resistant meter body of injection molded Polysulfone.\*
- Floats are #316 S.S. or Teflon, depending on calibration.
- Many calibrations are offered in GPM, LPM and SCFM.
- Permanent, easy to read screen printed scales.
- 1" F/NPT Polysulfone adapters, or, 1 1/2" PVC adapters (depending on model ordered).
- Viton® o-ring seals.
- Accuracy ± 3%.
- May be ordered with 90° elbow adapters.
- Available with brass sweat or brass 1" F/NPT adapters.
- Available with Polycarbonate Protective Shield.
- Not recommended for direct sunlight applications.

### F-451 Specifications:

Temperature	212°F/100°C @ 0 pressure
Pressure	150 psi/10 Bar @ 70°F/21°C
Full Scale Accuracy	± 3%
Meter Body Material	Polysulfone
Adapter Material	1" Polysulfone & 1 1/2" PVC
O-Rings	Viton
Float Material	#316 SS, Hastelloy C or Teflon, depending on calibration.
Max. Pressure Drop	1 psi
Approx. Shipping Weight	3 lbs. (1.36 kg.)

Pipe Sizes:  
1", 1-1/2" F/NPT

Calibration Range:  
0.5 to 40 GPM  
2 to 155 LPM  
4 to 80 SCFM  
7 to 140 M<sup>3</sup>/Hr



F-451 IN-LINE

F-451 W/PROTECTIVE SHIELD

# POLYSULFONE VARIABLE AREA FLOWMETERS

## F-460 & F-461 SERIES with Rib Guided Float



### F-460 & F-461 Features:

- 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 .....	Teflon
O-ring Seals .....	Viton
Max. Pressure Drop .....	2 psi
Approx. Shipping Weight .....	F-460 = 1 lb. (.45 kg) F-461 = 3 lb. (1.4 kg)

**NO METALS**  
in the  
Fluid Path

Pipe Sizes:  
1/2", 3/4", and  
1" F/NPT

Calibration Range: F-460  
0.1 to 5.0 U.S. GPM  
0.4 to 20 LPM

Calibration Range: F-461  
1 to 35 U.S. GPM  
4 to 130 LPM

### Butt Fusion & Socket Fusion Fittings

Now Available for F-460 and F-461  
Polypropylene or PVDF Butt Fusion & Socket Fusion  
Fittings for ULTRA PURE APPLICATIONS



Optional

## F-462 SERIES with Rib Guided Float

### F-462 Features:

- 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.

Pipe Sizes:  
2" F/NPT

Calibration  
Range:  
2 to 80 GPM  
8 to 30 LPM

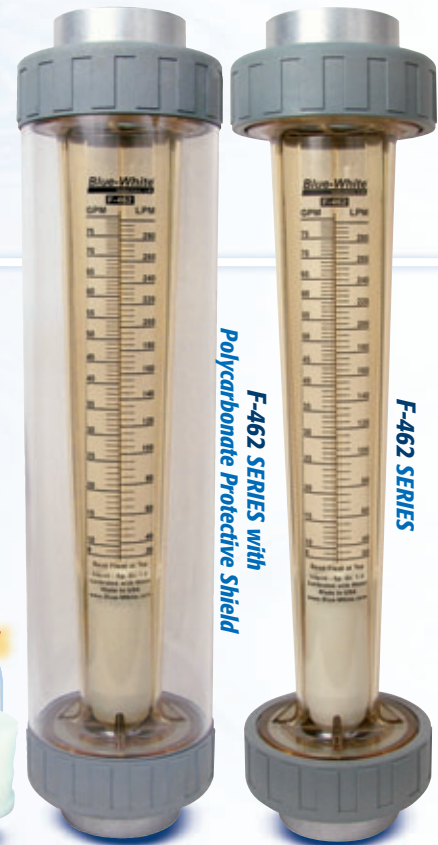
**NO METALS**  
in the  
Fluid Path

### Butt Fusion & Socket Fusion Fittings

Now Available for F-460 and F-461  
Polypropylene or PVDF Butt Fusion & Socket Fusion  
Fittings for ULTRA PURE APPLICATIONS



Optional



Polycarbonate Protective Shield

F-462 SERIES

F-462 SERIES with

## F-300 SERIES Machined Acrylic Flowmeters

### F-300 Features:

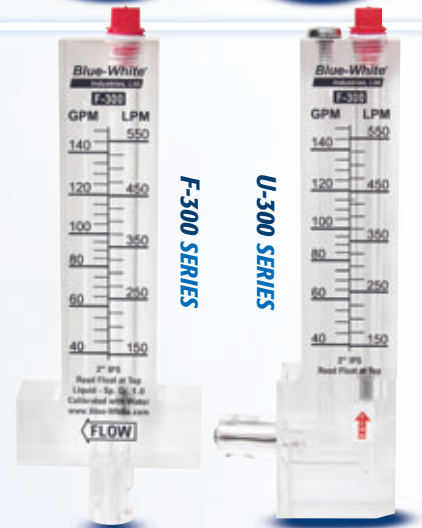
- Well suited for closed pipe installation.
- Easy to read dual scale (GPM/LPM), screen printed on both sides of the meter body.
- Horizontal or Vertical pipe installation.
- One piece machined acrylic meter body.
- Corrosion resistant internal parts.
- Calibrated pitot tube.
- Ships with gasket seal 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 .....	± 10%
Meter Body Material .....	Acrylic
Connection Type .....	Saddle
Float Material .....	#316 SS, Hastelloy or Teflon (low flow units)
Max. Pressure Drop .....	0 psi
Approx. Shipping Weight .....	1" to 4" Pipe: 1 lbs. (.454 kg.) 6" to 8" Pipe: 2 lbs. (.907 kg.)

I.P.S. Pipe Sizes:  
1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4", 6", 8"

Calibration Range:  
5 to 1900 U.S. GPM, 20 to 7200 LPM



F-300 SERIES

U-300 SERIES

# DIGI-FLO METERS – SUPERIOR PERFORMANCE

## DIGI-FLO F-2000 Hall Effect Output Signal



SADDLE MOUNT

MACHINED FITTING

MOLDED FITTING

### Digi-Flo F-2000 Features:

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

### DIGI-FLO 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)
<i>Note: Temperatures rating of F-1000 only. Actual pipe rating may vary.</i>	
Power Requirements .....	6-24 VDC, AC/DC transformer sold separately.
Full Scale Accuracy .....	+/- 1%
Sensor/Paddle/Axle Material ...	PVDF
O-ring Seals .....	Viton
Approx. Shipping Weight ....	2 lb. (0.9 kg)

## F-1000 DIGITAL FLOWMETERS

### with MOLDED IN-LINE Body

### with SADDLE MOUNT & SOLVENT TEE Bodies



DIGI-FLO F-1000 SERIES with Molded In-Line Units

DIGI-FLO F-1000 SERIES with Solvent TEE Body

DIGI-FLO F-1000 SERIES with Saddle Mount



### F-1000 with Molded In-Line Specifications:

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 .....	Viton
Max. Pressure Drop .....	8 psi (varies per model)
Approx. Shipping Weight ....	2 lb. (.91 kg)

Pipe Sizes:  
1/4", 3/8",  
1/2", 3/4",  
1", 2"  
M/NPT

### F-1000 with Saddle Mount & Solvent Tee Specifications:

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)
<i>Note: Temperatures rating of F-1000 only. Actual pipe rating may vary.</i>	
Full Scale Accuracy .....	+/- 2%
Sensor/Paddle/Axle Material ...	PVDF
O-ring Seals .....	Viton
Max. Pressure Drop .....	0 psi (no significant pressure drop)
Approx. Shipping Weight ....	2 lb. (.91 kg)

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

### with MACHINED IN-LINE Body



DIGI-FLO F-1000 SERIES with Machined In-Line Body

### F-1000 with Machined In-Line Specifications:

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 .....	Viton
Max. Pressure Drop .....	8 psi (varies per model)
Approx. Shipping Weight ....	5 lb. (2.3 kg)

Pipe Sizes:  
1/4", 3/8",  
1/2", 3/4",  
1", 2"  
F/NPT

### Digi-Flo F-1000 Features:

- Easy to read 6 digit LCD, up to 4 decimal positions.
- Tamper proof.
- Battery operated (2 AAA batteries included).
- 3 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
- LCD is not recommended for direct sunlight applications.

# F-2000 DIGITAL FLOWMETERS – Sensor Mounted

with **MOLDED IN-LINE** Body

with **SADDLE MOUNT & SOLVENT TEE** Bodies



**DIGI-FLO  
F-2000 SERIES**  
with Molded  
In-Line Body



**DIGI-FLO  
F-2000 SERIES**  
with Saddle Mount



**DIGI-FLO  
F-2000 SERIES**  
with Solvent TEE  
Body



Pipe Sizes:  
3/8", 1/2", 3/4", 1", 1-1/2", 2" M/NPT

### F-2000 with Molded In-Line Specifications:

Max. Working Pressure .....	300 psig (20 bar) @ 70°F (21°C)
Max. Fluid Temperature .....	200°F (93°C) @ 0 PSI
Full Scale Accuracy .....	+/- 1%
Sensor/Paddle/Axle Material ...	PVDF
O-ring Seals .....	Viton
Max. Pressure Drop .....	8 psi (varies per model)
Approx. Shipping Weight ....	4 lb. (1.8 kg)

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

### F-2000 with Saddle Mount & Solvent Tee Specifications:

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)
Full Scale Accuracy .....	+/- 1%
Sensor/Paddle/Axle Material ...	PVDF (1-1/2", 2", 3", 50mm, 90mm) PVC (other sizes)
O-ring Seals .....	Viton
Max. Pressure Drop .....	0 psi (no significant pressure drop)
Approx. Shipping Weight ....	4 lb. (.1.8 kg)

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

with **MACHINED IN-LINE** Body



**DIGI-FLO  
F-2000 SERIES**  
with Machined  
In-Line Bodies

Pipe Sizes:  
3/8", 1/2", 3/4",  
1", 1-1/2",  
2" F/NPT

### F-2000 with Machined In-Line Specifications:

Max. Working Pressure .....	300 psig (20 bar) @ 70°F (21°C)
Max. Fluid Temperature .....	200°F (93°C) @ 0 PSI
Full Scale Accuracy .....	+/- 1%
Sensor/Paddle/Axle Material ...	PVDF
O-ring Seals .....	Viton
Max. Pressure Drop .....	8 psi (varies per model)
Approx. Shipping Weight ....	5 lb. (2.3 kg)

### Digi-Flo F-2000 Features:

- 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.

### 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.

\* Viton® is a registered trademark of DuPont.

# CAPACITY GUIDELINES

This is general capacity information. For complete specifications and calibrations, please contact the factory or visit our technical website at [www.blue-white.com](http://www.blue-white.com)

## F-1000 Molded In-Line Polypropylene Body, Molded In-Line PVDF, Machined In-Line Polypropylene Body and Machined In-Line PVDF Body

GPM Models		
MOLDED IN-LINE POLYPROPYLENE BODY		
MODEL NUMBER	PIPE SIZE M/NPT	FLOW RANGE
(*)-375MI-GPM1	3/8"	.8 to 8
(*)-375MI-GPM2	3/8"	.4 to 4
(*)-500MI-GPM1	1/2"	2 to 20
(*)-500MI-GPM2	1/2"	.5 to 5
(*)-750MI-GPM1	3/4"	3 to 30
(*)-750MI-GPM2	3/4"	.8 to 8
(*)-100MI-GPM1	1"	5 to 50
(*)-100MI-GPM2	1"	2 to 20
(*)-150MI-GPM1	1-1/2"	4 to 40
(*)-150MI-GPM2	1-1/2"	6 to 60
(*)-150MI-GPM3	1-1/2"	10 to 100
(*)-200MI-GPM1	2"	4 to 40
(*)-200MI-GPM2	2"	6 to 60
(*)-200MI-GPM3	2"	10 to 100
(*)-200MI-GPM4	2"	20 to 20

MOLDED IN-LINE PVDF BODY		
MODEL NUMBER	PIPE SIZE M/NPT	FLOW RANGE
(*)-375FI-GPM1	3/8"	.8 to 8
(*)-375FI-GPM2	3/8"	.4 to 4
(*)-500FI-GPM1	1/2"	2 to 20
(*)-500FI-GPM2	1/2"	.5 to 5
(*)-750FI-GPM1	3/4"	3 to 30
(*)-750FI-GPM2	3/4"	.8 to 8
(*)-100FI-GPM1	1"	5 to 50
(*)-100FI-GPM2	1"	2 to 20
(*)-150FI-GPM1	1-1/2"	4 to 40
(*)-150FI-GPM2	1-1/2"	6 to 60
(*)-150FI-GPM3	1-1/2"	10 to 100
(*)-200FI-GPM1	2"	4 to 40
(*)-200FI-GPM2	2"	6 to 60
(*)-200FI-GPM3	2"	10 to 100
(*)-200FI-GPM4	2"	20 to 20

(\*)Replace: RB=Rate Only, TB=Total Only, RT=Rate & Totalizer

LPM Models		
MOLDED IN-LINE POLYPROPYLENE BODY		
MODEL NUMBER	PIPE SIZE M/NPT	FLOW RANGE
(*)-375MI-LPM1	3/8"	3 to 30
(*)-375MI-LPM2	3/8"	1 to 10
(*)-500MI-LPM1	1/2"	7 to 70
(*)-500MI-LPM2	1/2"	2 to 20
(*)-750MI-LPM1	3/4"	11 to 110
(*)-750MI-LPM2	3/4"	3 to 30
(*)-100MI-LPM1	1"	20 to 200
(*)-100MI-LPM2	1"	7 to 70
(*)-150MI-LPM1	1-1/2"	15 to 150
(*)-150MI-LPM2	1-1/2"	25 to 250
(*)-150MI-LPM3	1-1/2"	40 to 400
(*)-200MI-LPM1	2"	15 to 150
(*)-200MI-LPM2	2"	25 to 250
(*)-200MI-LPM3	2"	40 to 400
(*)-200MI-LPM4	2"	70 to 700

MOLDED IN-LINE PVDF BODY		
MODEL NUMBER	PIPE SIZE M/NPT	FLOW RANGE
(*)-375FI-LPM1	3/8"	3 to 30
(*)-375FI-LPM2	3/8"	1 to 10
(*)-500FI-LPM1	1/2"	7 to 70
(*)-500FI-LPM2	1/2"	2 to 20
(*)-750FI-LPM1	3/4"	11 to 110
(*)-750FI-LPM2	3/4"	3 to 30
(*)-100FI-LPM1	1"	20 to 200
(*)-100FI-LPM2	1"	7 to 70
(*)-150FI-LPM1	1-1/2"	15 to 150
(*)-150FI-LPM2	1-1/2"	25 to 250
(*)-150FI-LPM3	1-1/2"	40 to 400
(*)-200FI-LPM1	2"	15 to 150
(*)-200FI-LPM2	2"	25 to 250
(*)-200FI-LPM3	2"	40 to 400
(*)-200FI-LPM4	2"	70 to 700

(\*)Replace: RB=Rate Only, TB=Total Only, RT=Rate & Totalizer

Saddle Mount on U.S. IPS Pipe			
MODEL NUMBER	PIPE SIZE M/NPT	SCHEDULE 40 FLOW RANGE (GPM)	SCHEDULE 80 FLOW RANGE (GPM)
(*)-150S(**)-GPM1	1-1/2"	15 to 150	15 to 150
(*)-200S(**)-GPM1	2"	30 to 300	30 to 300
(*)-300S(**)-GPM1	3"	60 to 600	60 to 600
(*)-400S(**)-GPM1	4"	100 to 1000	100 to 1000
(*)-600S(**)-GPM1	6"	250 to 2500	250 to 2500
(*)-800S(**)-GPM1	8"	400 to 4000	400 to 4000
(*)-1000S(**)-GPM1	10"	600 to 6000	600 to 6000
(*)-1200S(**)-GPM1	12"	800 to 8000	800 to 8000

(\*)Replace: RB=Rate Only, TB=Total Only, RT=Rate & Totalizer  
(\*\*) Replace: 4=SCHEDULE 40, 8=SCHEDULE 80

Saddle Mount on METRIC Pipe			
MODEL NUMBER	PIPE SIZE M/NPT	PN 10 FLOW RANGE (LPM)	PN 16 FLOW RANGE (LPM)
(*)-050P(**)-LPM1	50mm	70 to 700	70 to 700
(*)-063P(**)-LPM1	63mm	110 to 1100	110 to 1100
(*)-090P(**)-LPM1	90mm	230 to 2300	230 to 2300
(*)-110P(**)-LPM1	110mm	350 to 3500	350 to 3500
(*)-160P(**)-LPM1	160mm	720 to 7200	720 to 7200
(*)-200P(**)-LPM1	200mm	1150 to 11500	1150 to 11500
(*)-250P(**)-LPM1	250mm	1700 to 17000	
(*)-315P(**)-LPM1	315mm	2700 to 27000	

(\*)Replace: RB=Rate Only, TB=Total Only, RT=Rate & Totalizer  
(\*\*) Replace: 0=PN 10, 6=PN 16

Mount on SOLVENT WELD PVC TEE			
MODEL NUMBER	PIPE SIZE M/NPT	GPM FLOW RANGE	LPM FLOW RANGE
(*)-100AT(**)PM1	1"	6 to 60	25 to 250
(*)-150AT(**)PM1	1-1/2"	15 to 150	60 to 600
(*)-200AT(**)PM1	2"	30 to 300	100 to 1000

(\*)Replace: RB=Rate Only, TB=Total Only, RT=Rate & Totalizer  
(\*\*) Replace: G=GPM, L=LPM

## F-2000 Sensor Mounted, Transformer Powered on Molded In-Line Polypropylene Body, Molded In-Line PVDF Body, Machined In-Line Polypropylene Body and Machined In-Line PVDF Body

GPM Models		
MOLDED IN-LINE POLYPROPYLENE BODY		
MODEL NUMBER	PIPE SIZE M/NPT	FLOW RANGE
(*)S138M1GM1	3/8"	.8 to 8
(*)S138M2GM1	3/8"	.4 to 4
(*)S150M1GM1	1/2"	2 to 20
(*)S150M2GM1	1/2"	.5 to 5
(*)S175M1GM1	3/4"	3 to 30
(*)S175M2GM1	3/4"	.8 to 8
(*)S110M1GM1	1"	5 to 50
(*)S110M2GM1	1"	2 to 20
(*)S115M1GM1	1-1/2"	4 to 40
(*)S115M2GM1	1-1/2"	6 to 60
(*)S115M3GM1	1-1/2"	10 to 100
(*)S120M1GM1	2"	4 to 40
(*)S120M2GM1	2"	6 to 60
(*)S120M3GM1	2"	10 to 100
(*)S120M4GM1	2"	20 to 20

MOLDED IN-LINE PVDF BODY		
MODEL NUMBER	PIPE SIZE M/NPT	FLOW RANGE
(*)S138F1GM1	3/8"	.8 to 8
(*)S138F2GM1	3/8"	.4 to 4
(*)S150F1GM1	1/2"	2 to 20
(*)S150F2GM1	1/2"	.5 to 5
(*)S175F1GM1	3/4"	3 to 30
(*)S175F2GM1	3/4"	.8 to 8
(*)S110F1GM1	1"	5 to 50
(*)S110F2GM1	1"	2 to 20
(*)S115F1GM1	1-1/2"	4 to 40
(*)S115F2GM1	1-1/2"	6 to 60
(*)S115F3GM1	1-1/2"	10 to 100
(*)S120F1GM1	2"	4 to 40
(*)S120F2GM1	2"	6 to 60
(*)S120F3GM1	2"	10 to 100
(*)S120F4GM1	2"	20 to 20

(\*)Replace: RT=Rate & Totalizer, AO=Analog Output, PC=Proportional Chemical, AP=Analog & Proportional

LPM Models		
MOLDED IN-LINE POLYPROPYLENE BODY		
MODEL NUMBER	PIPE SIZE M/NPT	FLOW RANGE
(*)S138M1LM1	3/8"	3 to 30
(*)S138M2LM1	3/8"	1 to 10
(*)S150M1LM1	1/2"	7 to 70
(*)S150M2LM1	1/2"	2 to 20
(*)S175M1LM1	3/4"	11 to 110
(*)S175M2LM1	3/4"	3 to 30
(*)S110M1LM1	1"	20 to 200
(*)S110M2LM1	1"	7 to 70
(*)S115M1LM1	1-1/2"	15 to 150
(*)S115M2LM1	1-1/2"	25 to 250
(*)S115M3LM1	1-1/2"	40 to 400
(*)S120M1LM1	2"	15 to 150
(*)S120M2LM1	2"	25 to 250
(*)S120M3LM1	2"	40 to 400
(*)S120M4LM1	2"	70 to 700

MOLDED IN-LINE PVDF BODY		
MODEL NUMBER	PIPE SIZE M/NPT	FLOW RANGE
(*)-375FI-LPM1	3/8"	3 to 30
(*)-375FI-LPM2	3/8"	1 to 10
(*)-500FI-LPM1	1/2"	7 to 70
(*)-500FI-LPM2	1/2"	2 to 20
(*)-750FI-LPM1	3/4"	11 to 110
(*)-750FI-LPM2	3/4"	3 to 30
(*)-100FI-LPM1	1"	20 to 200
(*)-100FI-LPM2	1"	7 to 70
(*)-150FI-LPM1	1-1/2"	15 to 150
(*)-150FI-LPM2	1-1/2"	25 to 250
(*)-150FI-LPM3	1-1/2"	40 to 400
(*)-200FI-LPM1	2"	15 to 150
(*)-200FI-LPM2	2"	25 to 250
(*)-200FI-LPM3	2"	40 to 400
(*)-200FI-LPM4	2"	70 to 700

(\*)Replace: RT=Rate & Totalizer, AO=Analog Output, PC=Proportional Chemical, AP=Analog & Proportional

Saddle Mount on U.S. IPS Pipe			
MODEL NUMBER	PIPE SIZE M/NPT	SCHEDULE 40 FLOW RANGE (GPM)	SCHEDULE 80 FLOW RANGE (GPM)
(*)S115K(**)GM1	1-1/2"	15 to 150	15 to 150
(*)S120K(**)GM1	2"	30 to 300	30 to 300
(*)S130K(**)GM1	3"	60 to 600	60 to 600
(*)S140A(**)GM1	4"	100 to 1000	100 to 1000
(*)S160A(**)GM1	6"	250 to 2500	250 to 2500
(*)S180A(**)GM1	8"	400 to 4000	400 to 4000
(*)S1100A(**)GM1	10"	600 to 6000	600 to 6000
(*)S1120A(**)GM1	12"	800 to 8000	800 to 8000

(\*)Replace: RT=Rate & Totalizer, AO=Analog Output, PC=Proportional Chemical, AP=Analog & Proportional  
(\*\*) Replace: 4=SCHEDULE 40, 8=SCHEDULE 80

Saddle Mount on METRIC Pipe			
MODEL NUMBER	PIPE SIZE M/NPT	PN 10 FLOW RANGE (LPM)	PN 16 FLOW RANGE (LPM)
(*)S105K(**)LM1	50mm	70 to 700	70 to 700
(*)S106K(**)LM1	63mm	110 to 1100	110 to 1100
(*)S109K(**)LM1	90mm	230 to 2300	230 to 2300
(*)S111A(**)LM1	110mm	350 to 3500	350 to 3500
(*)S116A(**)LM1	160mm	720 to 7200	720 to 7200
(*)S120A(**)LM1	200mm	1150 to 11500	1150 to 11500
(*)S125A(**)LM1	250mm	1700 to 17000	
(*)S131A(**)LM1	315mm	2700 to 27000	

(\*)Replace: RT=Rate & Totalizer, AO=Analog Output, PC=Proportional Chemical, AP=Analog & Proportional  
(\*\*) Replace: 0=PN 10, 6=PN 16

Mount on SOLVENT WELD PVC TEE			
MODEL NUMBER	PIPE SIZE M/NPT	GPM FLOW RANGE	LPM FLOW RANGE
(*)S110AT(**)PM1	1"	6 to 60	25 to 250
(*)S115AT(**)PM1	1-1/2"	15 to 150	60 to 600
(*)S120AT(**)PM1	2"	30 to 300	100 to 1000

(\*)Replace: RT=Rate & Totalizer, AO=Analog Output, PC=Proportional Chemical, AP=Analog & Proportional  
(\*\*) Replace: G=GPM, L=LPM

\* Viton® is a registered trademark of DuPont.

# F-1000 and F-2000 Pipe Fittings

## Molded In-line Features:

- 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. PSI ..... 300 psig (20 bar) @ 70°F (21°C)  
 Max. Temp ..... 200°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

## 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. PSI ..... 300 psig (20 bar) @ 70°F (21°C)  
 Max. Temp ..... 200°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

## Saddle Mount Features:

- 1-1/2" thru 3" (50mm thru 90mm) injection molded PVDF.
- 3" 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 Mount In-Line Specifications:

Max. PSI ..... 300 psig (20 bar) @ 70°F (21°C)  
 Max. Temp ..... 200°F (93°C) @ 0 PSI  
 ..... 140°F (60°C) @ 0 PSI (PVC)  
 Note: Temperature rating of pipe fitting only.  
 Actual pipe rating may vary  
 O-ring Seals... Viton

IPS Pipe Sizes:  
 1-1/2", 2", 3", 4", 6",  
 8", 10", 12"

Metric Pipe Sizes:  
 50, 63, 90, 110, 160,  
 200, 250, 315mm

## PVC TEE Features:

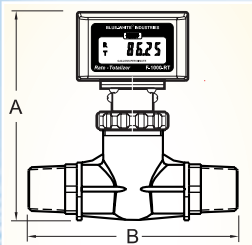
- Easy to install using standard PVC solvent weld cement.
- No added pressure drop to system.



## PVC TEE Specifications:

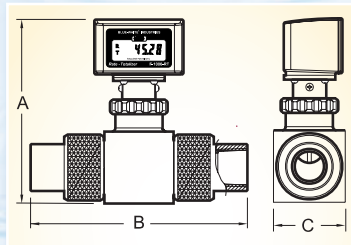
Max. PSI ..... 200 psig (13.8 bar) @ 70°F (21°C)  
 Max. Temp ..... 140°F (60°C) @ 0 PSI  
 Note: Temperature rating of pipe fitting only.  
 Actual pipe rating may vary

IPS Pipe Sizes:  
 1", 1-1/2", 2"



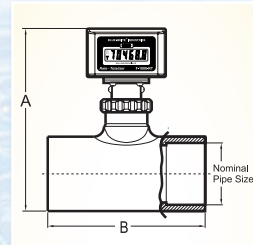
**F-1000 with MOLDED In-Line Body**

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"



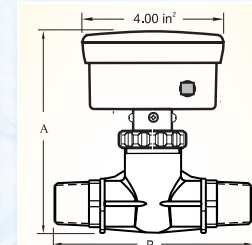
**F-1000 with MACHINED In-Line Body**

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"



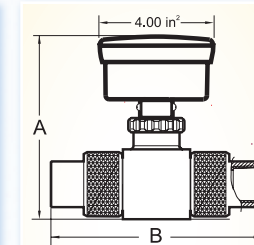
**F-1000 with SOLVENT TEE Body**

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



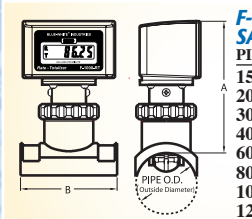
**F-2000 with MOLDED In-Line Body**

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"



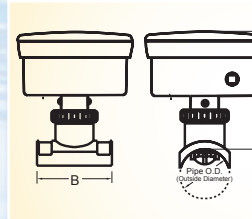
**F-2000 with MACHINED In-Line Body**

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"



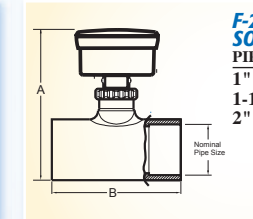
**F-1000 with SADDLE MOUNT Body**

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"



**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"



**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"

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