


# F-1000

## Digital Paddlewheel Flow Meter



### Features

- > High accuracy digital paddlewheel technology
- > 3/8", 1/2", 3/4", 1", 1-1/2", and 2" molded inline tee models
- > Up to 12" pipe size with saddle mount units
- > Tamper proof factory programming
- > Easy to read 6 digit LCD display, up to 4 decimal places
- > Very low pressure drop
- > Total reset function can be disabled

Video link: 

**NEMA 4X**

### Highlights

**Flow range**

.4 - 8,000 GPM  
1 - 27,000 LPM

**Pressures**

300 PSI  
(20.7 bar)

**Pressure drop**

0 - 8 PSI  
(varies per model)

**Full Scale Accuracy**

+/- 2%

**Power supply**

Battery operated

**Warranty**

1 Year

### Available Models



Molded Fittings



Saddle Mount  
Fittings

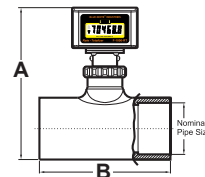
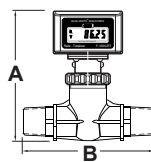
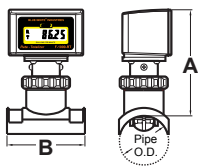


PVC Fittings



<b>Maximum Working Pressure</b>	300 PSI (20.7 bar) @ 70 °F (21 °C)
<b>Maximum Fluid Temperature</b>	200 °F (93.3 °C) @ 0 PSI (Polypropylene Tees and PVDF saddles) 140 °F (60 °C) @ 0 PSI (all PVC saddles and PVC Tee fittings)
<b>Maximum Ambient Temperature</b>	14 °F to 110 °F/ -10 °C to 43 °C
<b>Maximum Pressure Drop</b>	up to 8 PSI (polypropylene tees) no pressure drop on saddle models
<b>Full scale Accuracy</b>	+/- 2%
<b>Power Requirement</b>	2 AAA batteries (included)
<b>Approximate Shipping Weight</b>	2 lb. (.91 kg)
<b>Enclosure</b>	NEMA 4X (IP56)
<b>RoHS Compliant</b>	Yes

## Dimensions

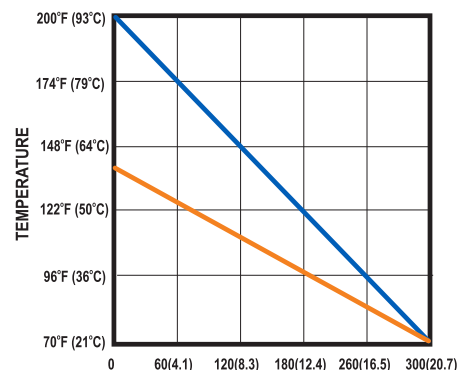


Saddle Fittings			Molded Fittings			PVC Tee		
Pipe Size	A	B	Pipe Size	A	B	Model	A	B
1.5"(50mm)	4-5/16"	3-3/16"	3/8"	5-3/8"	4-3/4"	RB-100	4"	6"
2"(63mm)	4-5/16"	3-3/16"	1/2"	5-3/8"	5-1/8"	RB-150	4-1/2"	6-5/8"
2.5"(75mm)	4-5/16"	3-3/16"	3/4"	5-5/8"	5-1/4"	RB-200	4-3/4"	7-1/8"
3"(90mm)	4-5/16"	3-3/16"	1"	5-5/8"	5-5/8"			
4"(110mm)	4-5/16"	3-3/16"	1-1/2"	6-1/8"	6-1/2"			
6"(160mm)	4-1/4"	3-3/16"	2"	6-3/8"	6-3/4"			
8"(200mm)	4-1/4"	3-3/16"						
10"(250mm)	4-1/4"	4-1/2"						
12"(315mm)	4-1/4"	4-1/2"						

## Performance

- PVC Saddles & PVC Tees
- PVDF Saddles & PP Tees

Maximum Temperature vs. Pressure



<b>Saddle material:</b>	PVDF ( 1-1/2", 2", 3", 50mm, 63mm, 90mm sizes)
	PVC (all other sizes)
<b>Molded In-Line Body:</b>	Polypropylene
<b>Sensor, paddlewheel, axle:</b>	PVDF
<b>Sensor O-ring seals:</b>	Viton (optional EP)
<b>Enclosure:</b>	ABS

## Ordering Information

### Molded In-Line Pipe Fittings

Pipe Size M/NPT	GPM Flow Range	LPM Flow Range	M <sup>3</sup> /HR Flow Range	OZ/Min Flow Range	Model Number	
					MNPT	MBSPT
3/8"	.8 to 8	3 - 30	0.2 - 1.8	106 - 1058	38M1	38MB1
3/8"	.4 to 4	1 - 10	0.1 - 0.6	35 - 353	38M2	38MB2
1/2"	2 to 20	7 - 70	0.4 - 4.2	247 - 2469	50M1	50MB1
3/4"	3 - 30	11 - 110	0.7 - 6.6	388 - 3880	75M1	75MB1
1"	5 to 50	20 - 200	1.2 - 12	705 - 7054	10M1	10MB1
1-1/2"	6 to 60	25 - 250	1.5 - 15	885 - 8818	15M2	15MB2
2"	10 to 100	40 - 400	2.4 - 24	1411 - 14108	20M3	20MB3
2"	20 to 200	70 - 700	4.2 - 42	2469 - 24689	20M4	20MB4

### TEE Pipe Fittings

Pipe Size	GPM Range	LPM Range	Model Number
			Solvent Weld PVC Tee
1"	6 to 60	25 - 250	10AT
1-1/2"	15 to 150	60 - 600	15AT
2"	30 to 300	100 - 1000	20AT
3"	60 to 600	230 - 2300	30AT

### Saddle Mount Pipe Fittings

Pipe Size IPS	GPM Range	Material	Model Number	
			Schedule 40	Schedule 80
1-1/2"	15 to 150	PVDF	15K4	15K8
2"	30 to 300	PVDF	20K4	20K8
2-1/2"	40 to 400	PVC	25A4	25A8
3"	60 to 600	PVDF	30K4	30K8
4"	100 to 1000	PVC	40A4	40A8
6"	250 to 2500	PVC	60A4	60A8
8"	400 to 4000	PVC	80A4	80A8
10"	600 to 6000	PVC	100A4	100A8
12"	800 to 8000	PVC	120A4	120A8

DIN 8062	LPM	Material	Metric PN10	Metric PN16
50mm	70 to 700	PVDF	05K0	05K6
63mm	110 to 1100	PVDF	06K0	06K6
75mm	150 to 1500	PVC	08A0	08A6
90mm	230 to 2300	PVDF	09K0	09K6
110mm	350 to 3500	PVC	11A0	11A6
160mm	720 to 7200	PVC	16A0	16A6
200mm	1150 to 11500	PVC	20A0	20A6
250mm	1700 to 17000	PVC	25A0	
315mm	2700 to 27000	PVC	31A0	

# F-1000 Model Number Matrix

F-1000

<b>RB</b>	-	<b>375</b>	<b>MI</b>	-	<b>GPM</b>	<b>1</b>	-		<b>Sample Model Number</b>
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<b>Variations</b>
<b>RB</b> = Rate Only
<b>TB</b> = Total Only
<b>RT</b> = Rate and Total

<b>Pipe Fitting</b>
Blank = Standard
<b>P</b> = No pipe fitting

Pipe Sizes M/NPT	
Imperial Pipe Sizes	Metric Pipe Sizes
<b>375</b> = 3/8" IPS	<b>050</b> = 50 mm
<b>500</b> = 1/2" IPS	<b>063</b> = 63 mm
<b>750</b> = 3/4" IPS	<b>075</b> = 75 mm
<b>100</b> = 1" IPS	<b>090</b> = 90 mm
<b>150</b> = 1-1/2" IPS	<b>110</b> = 110 mm
<b>200</b> = 2" IPS	<b>160</b> = 160 mm
<b>250</b> = 2-1/2" IPS	<b>200</b> = 200 mm
<b>300</b> = 3" IPS	<b>250</b> = 250 mm
<b>400</b> = 4" IPS	<b>315</b> = 315 mm
<b>600</b> = 6" IPS	
<b>800</b> = 8" IPS	
<b>1000</b> = 10" IPS	
<b>1200</b> = 12" IPS	

<b>O-rings / Elastomers</b>
Blank = Standard
<b>E</b> = EPDM O-rings

<b>Calibration Range</b> (see pipe fitting detail)	
<b>1</b> = Range 1	<b>3</b> = Range 3
<b>2</b> = Range 2	<b>4</b> = Range 4
Molded In-line fittings - Use last number of fitting #.	
All other fittings - Use Range 1	

<b>Calibration Units</b>
<b>GPM</b> = U.S. Gallons per minute
<b>GPH</b> = U.S. Gallons per hour
<b>GPD</b> = U.S. Gallons per day
<b>OZM</b> = U.S. Ounces per minute
<b>CFM</b> = Cubic Feet per minute
<b>AFD</b> = Acre Feet per day
<b>LPM</b> = Liters per minute
<b>LPH</b> = Liters per hour
<b>LPD</b> = Liters per day
<b>M3H</b> = Cubic Meters per hour
<b>IGM</b> = Imperial Gallons per minute
<b>IGH</b> = Imperial Gallons per hour

Pipe Fitting Type	
<b>S4</b> = SADDLE, SCH40 (I.P.S.) PVC or IRON pipe	<b>MI</b> = INLINE INJECTION MOLDED PP AMERICAN M/NPT
1-1/2", 2", 3" PVDF	3/8", 1/2", 3/4", 1" M/NPT, polypropylene
2-1/2", 4", 6", 8" PVC	1-1/2" M/NPT, polypropylene
10", 12" PVC	2" M/NPT, polypropylene
<b>S8</b> = SADDLE, SCH80 (I.P.S.) PVC pipe	<b>MB</b> = INLINE INJECTION MOLDED PP BRITISH M/BSPT
1-1/2", 2", 3" PVDF	3/8", 1/2", 3/4", 1" M/BSPT, polypropylene
2-1/2", 4", 6", 8" PVC	1-1/2" M/BSPT, polypropylene
10", 12" PVC	2" M/BSPT, polypropylene
<b>P0</b> = SADDLE, PN10 METRIC (DIN 8062) pipe	<b>AT</b> = INLINE INJECTION MOLDED TEE PVC SLIP/SOCKET
50 mm, 63 mm, 90 mm PVDF	1", 1-1/2", 2" PVC
75, 110, 160, 200 mm PVC	3" PVC
250, 315 mm PVC	
<b>P6</b> = SADDLE, PN16 METRIC (DIN 8062) pipe	
50 mm, 63 mm, 90 mm PVDF	
75, 110, 160, 200 mm PVC	
250, 315 mm PVC	

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