

F-1000

Digital Paddlewheel Flow Meter



Features

- > High accuracy digital paddlewheel technology
- > 3/8", 1/2", 3/4", 1", 1-1/2", and 2" male pipe threads
- > 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

NEMA 4X

Highlights

Flow range

.4 - 200 GPM
1 - 27,000 LPM

Pressures

300 PSI
(20.7 bar)

Pressure drop

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

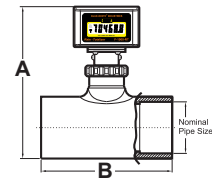
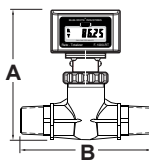
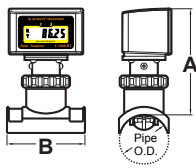


Stainless Steel
Tee Fittings



Maximum Working Pressure	300 PSI (20.7 bar) @ 70 °F (21 °C)
	200 °F (93.3 °C) @ 0 PSI (all PVDF saddles and SS Tee fittings)
Maximum Fluid Temperature	140 °F (60 °C) @ 0 PSI (all PVC saddles and PVC Tee fittings)
	NOTE: Temperature rating of F-1000 only. Actual pipe rating may vary
Maximum Ambient Temperature	14 °F to 110 °F/ -10 °C to 43 °C
Maximum Pressure Drop	8 PSI (varies per model)
Full scale Accuracy	+/- 2%
Power Requirement	2 AAA batteries (included)
Approximate Shipping Weight	2 lb. (.91 kg)
Enclosure	NEMA 4X (IP56)
RoHS Compliant	Yes

Dimensions



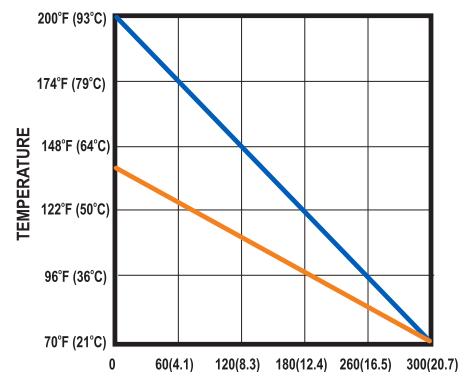
Saddle Fittings			Molded Fittings			316 SS Tee			PVC Tee	
Pipe Size	A	B	Pipe Size	A	B	Model	A	B	A	B
1.5"(50mm)	4-5/16"	3-3/16"	3/8"	5-3/8"	4-3/4"	RB-100	5-1/2"	3"	4"	6"
2"(63mm)	4-5/16"	3-3/16"	1/2"	5-3/8"	5-1/8"	RB-150	6-1/4"	3-13/16"	4-1/2"	6-5/8"
2.5"(75mm)	4-5/16"	3-3/16"	3/4"	5-5/8"	5-1/4"	RB-200	6-3/4"	4-7/16"	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

NOTE: All tests performed after approximately 30 minutes tube break-in period.

- PVC Saddles & PVC Tees
- PVDF Saddles & SS Tees

Maximum Temperature vs. Pressure



Saddle material:	PVDF (1-1/2", 2", 3", 50mm, 63mm, 90mm sizes)
	PVC (all other sizes)
Pipe fitting:	Polypropylene (options: PVDF)
Sensor, paddlewheel, axle:	PVDF
Sensor O-ring seals:	Viton (optional EP)
Enclosure:	ABS

Ordering Information

Molded In-Line Pipe Fittings

Pipe Size	GPM Range	Max. PSI Drop	Model Number	
			Polypropylene	PVDF
3/8"	.8 to 8	2.3	375M1	375F1
3/8"	.4 to 4	8.7	375M2	375F2
1/2"	2 to 20	3.5	50M1	50F1
1/2"	.5 to 5	6.9	50M2	50F2
3/4"	3 to 30	1.9	75M1	75F1
3/4"	.8 to 8	2.3	75M2	75F2
1"	5 to 50	1.6	10M1	10F1
1"	2 to 20	3.5	10M2	10F2
1-1/2"	4 to 40	1.8	15M1	15F1
1-1/2"	6 to 60	1.0	15M2	15F2
1-1/2"	10 to 100	0.9	15M3	15F3
2"	4 to 40	1.8	20M1	20F1
2"	6 to 60	1.0	20M2	20F2
2"	10 to 100	0.9	20M3	20F3
2"	20 to 200	1.0	20M4	20F4

TEE Pipe Fittings

Pipe Size	GPM Range	316 SS Tee Material	Socket Weld PVC Tee	
			Material	Model Number
1"	6 to 60	316 SS	PVC	10AT
1-1/2"	15 to 150	316 SS	PVC	15AT
2"	30 to 300	316 SS	PVC	20AT
3"	60 to 600		PVC	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	

Model Number Matrix

RB	-	375	S4	-	GPM	1	-	E	Sample Model Number
-----------	---	------------	-----------	---	------------	----------	---	----------	----------------------------

Variations
RB = Rate Only Model Number
TB = Total Only Model Number
RT = Rate and Total Model Number

Option
E = EP O-rings
K = Kalrez O-rings
P = No pipe fitting (not applicable with 1", 1.5", 2" SS Tee models)

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

Calibration Range
1 = Range 1 (see pipe fitting detail)
2 = Range 2 (see pipe fitting detail)
3 = Range 3 (see pipe fitting detail)
4 = Range 4 (see pipe fitting detail)
5 = Range 5 (see pipe fitting detail)
6 = Range 6 (see pipe fitting detail)

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

Pipe Fitting Type	
S4 = SADDLE, SCH40 (I.P.S.) PVC or IRON pipe	MB = INLINE INJECTION MOLDED PP BRITISH M/BSPT
1-1/2", 2", 3" PVDF	3/8", 1/2", 3/4", 1" M/BSPT, polypropylene 0.00
2-1/2", 4", 6", 8", 10", 12" PVC	1-1/2" M/BSPT, polypropylene
S8 = SADDLE, SCH80 (I.P.S.) PVC pipe	2" M/BSPT, polypropylene
1-1/2", 2", 3" PVDF	FI = INLINE INJECTION MOLDED PVDF AMERICAN M/NPT
2-1/2", 4", 6", 8", 10", 12" PVC	3/8", 1/2", 3/4", 1" M/NPT, PVDF
P0 = SADDLE, PN10 METRIC (DIN 8062) pipe	1-1/2" M/NPT, PVDF
50mm, 63mm, 90mm PVDF	2" M/NPT, PVDF
75, 110, 160, 200, 250, and 315mm PVC	FB = INLINE INJECTION MOLDED PVDF BRITISH M/BSPT
P6 = SADDLE, PN16 METRIC (DIN 8062) pipe	3/8", 1/2", 3/4", 1" M/BSPT, PVDF
50mm, 63mm, 90mm PVDF	1-1/2" M/BSPT, PVDF
75, 110, 160, and 200 PVC	2" M/BSPT, PVDF
MI = INLINE INJECTION MOLDED PP AMERICAN M/NPT	AT = INLINE INJECTION MOLDED TEE PVC SLIP/SOCKET
3/8", 1/2", 3/4", 1" M/NPT, polypropylene	1", 1-1/2", 2", 3"
1-1/2" M/NPT, polypropylene	ST = INLINE TEE 316 SS AMERICAN F/NPT
2" M/NPT, polypropylene	1" F/NPT
	1-1/2" F/NPT
	2" F/NPT