

F-1000

Digital Paddlewheel Flow Meter



Features

- > High accuracy digital paddlewheel technology
- > Flow Rate Only, Totalization Only, or Flow Rate & Totalization Models
- > 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
- > Totalization resettable function which can be disabled

Video link:

**NEMA 4X**

Highlights

Flow range

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

Pressures

up to 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

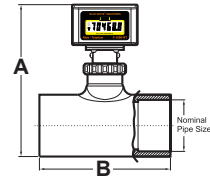
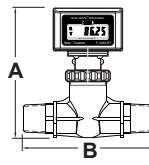
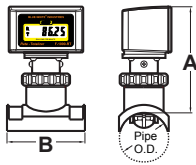
PVC Fittings



For more help and information regarding **F-1000**, please visit www.blue-white.com or scan this QR code.

Maximum Working Pressure	300 PSI (20.7 bar) @ 70 °F (21 °C) (refer to temp/pressure graph)
	200 °F (93.3 °C) @ 0 PSI (Polypropylene Tees and PVDF saddles)
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	up to 8 PSI (polypropylene tees) no pressure drop on saddle models
Full scale Accuracy	+/- 2%
Power Requirement	2 AAA batteries (included)
Approximate Shipping Weight	2 lb. (.91 kg)
Enclosure	NEMA 4X (IP56)
RoHS Compliant	Yes
BABAA Compliant	Yes

Dimensions

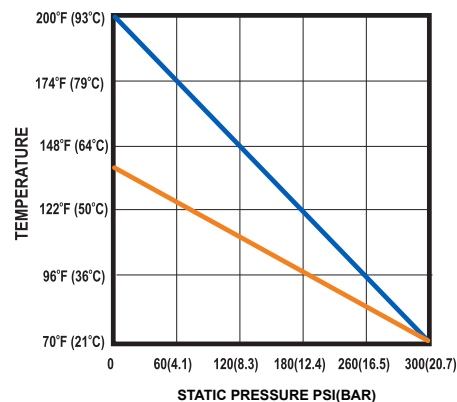


Saddle Fittings			Molded Fittings			PVC Tee		
Pipe Size	A	B	Pipe Size	A	B	Model	A	B
1.5"(50mm)	4-5/16"	3-3/16"	3/8"	5-3/8"	4-3/4"	RB-100	4"	6"
2"(63mm)	4-5/16"	3-3/16"	1/2"	5-3/8"	5-1/8"	RB-150	4-1/2"	6-5/8"
2.5"(75mm)	4-5/16"	3-3/16"	3/4"	5-5/8"	5-1/4"	RB-200	4-3/4"	7-1/8"
3"(90mm)	4-5/16"	3-3/16"	1"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



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

Ordering Information

Molded In-Line Pipe Fittings

Pipe Size M/NPT	GPM Flow Range	LPM Flow Range	M³/HR Flow Range	Fitting Number		Flow Range
				MNPT (MI)	MBSPT (MB)	
3/8"	.8 to 8	3 - 30	0.2 - 1.8	38M1	38MB1	1
3/8"	.4 to 4	1 - 10	0.1 - 0.6	38M2	38MB2	2
1/2"	2 to 20	7 - 70	0.4 - 4.2	50M1	50MB1	1
3/4"	3 - 30	11 - 110	0.7 - 6.6	75M1	75MB1	1
1"	5 to 50	20 - 200	1.2 - 12	10M1	10MB1	1
1-1/2"	6 to 60	25 - 250	1.5 - 15	15M2	15MB2	2
2"	10 to 100	40 - 400	2.4 - 24	20M3	20MB3	3
2"	20 to 200	70 - 700	4.2 - 42	20M4	20MB4	4

TEE Pipe Fittings (PVC)

Pipe Size	GPM Range	LPM Range	Fitting Number
			Solvent Weld PVC Tee (AT)
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	M³/HR Flow Range	Material	Fitting Number	
				Sch 40 (S4)	Sch 80 (S8)
1-1/2"	15 to 150	3.5 - 34.5	PVDF	15K4	15K8
2"	30 to 300	6.9 - 69.0	PVDF	20K4	20K8
2-1/2"	40 to 400	9.2 - 92.0	PVC	25A4	25A8
3" *	60 to 600	13.8 - 138	PVDF	30K4	30K8
4" *	100 to 1000	23.0 - 230	PVC	40A4	40A8
6" *	250 to 2500	57.5 - 575	PVC	60A4	60A8
8" *	400 to 4000	92.0 - 920	PVC	80A4	80A8
10" *	600 to 6000	138 - 1380	PVC	100A4	100A8
12" *	800 to 8000	184 - 1840	PVC	120A4	120A8

DIN 8062	LPM	M³/HR Flow Range	Material	Metric PN10 (P0)	Metric PN16 (P6)
50mm	70 to 700	4.2 - 42.0	PVDF	05K0	05K6
63mm *	110 to 1100	6.6 - 66.0	PVDF	06K0	06K6
75mm *	150 to 1500	9.0 - 90.0	PVC	08A0	08A6
90mm *	230 to 2300	13.8 - 138	PVDF	09K0	09K6
110mm *	350 to 3500	21.0 - 210	PVC	11A0	11A6
160mm *	720 to 7200	43.2 - 432	PVC	16A0	16A6
200mm *	1150 to 11500	69.0 - 690	PVC	20A0	20A6
250mm *	1700 to 17000	102 - 1020	PVC	25A0	
315mm *	2700 to 27000		PVC	31A0	

* Not available in GPD (gallons per day) or LPD (liters per day)

F-1000 Model Number Matrix

F-1000

RB	-	375	MI	-	GPM	1	-			Sample Model Number
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Variations

RB = Rate Only
TB = Total Only
RT = Rate and Total

Pipe Fitting

Blank = Standard
P = No pipe fitting

Pipe Sizes M/NPT

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

O-rings / Elastomers

Blank = Standard (FKM)
E = EPDM O-rings

Calibration Range (see pipe fitting detail)

1 = Range 1	3 = Range 3
2 = Range 2	4 = Range 4
Molded In-line fittings - Use last number of fitting #.	
All other fittings - Use Range 1	

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 (Ensure chosen pipe size is available for the fitting type)

S4 = SADDLE, SCH40 (I.P.S.) PVC or IRON pipe	MI = 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
S8 = SADDLE, SCH80 (I.P.S.) PVC 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
2-1/2", 4", 6", 8" PVC	1-1/2" M/BSPT, polypropylene
10", 12" PVC	2" M/BSPT, polypropylene
P0 = SADDLE, PN10 METRIC (DIN 8062) pipe	AT = 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	
P6 = SADDLE, PN16 METRIC (DIN 8062) pipe	
50 mm, 63 mm, 90 mm PVDF	
75, 110, 160, 200 mm PVC	
250, 315 mm PVC	