

F-1000

Digital Paddlewheel Flow Meter



Video link: 

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

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

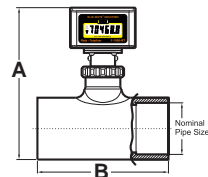
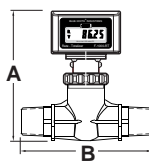
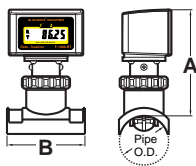


PVC Fittings



| | |
|------------------------------------|-----------------------------------------------------------------------------|
| Maximum Working Pressure | 300 PSI (20.7 bar) @ 70 °F (21 °C) |
| | 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 |

Dimensions

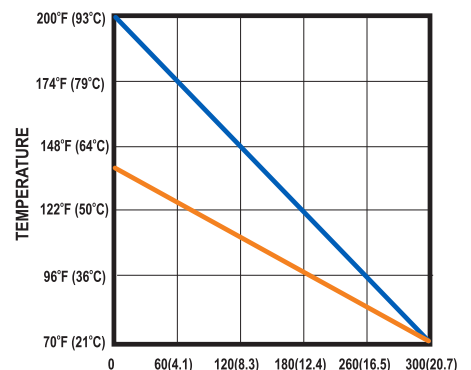


| Saddle Fittings | | | Molded Fittings | | | PVC Tee | | |
|-----------------|---------|---------|-----------------|--------|--------|---------|--------|--------|
| Pipe Size | A | B | Pipe Size | A | B | Model | A | B |
| 1.5"(50mm) | 4-5/16" | 3-3/16" | 3/8" | 5-3/8" | 4-3/4" | RB-100 | 4" | 6" |
| 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: | Viton (optional EP) |
| Enclosure: | ABS |

Ordering Information

Molded In-Line Pipe Fittings

| Pipe Size M/NPT | GPM Flow Range | LPM Flow Range | M ³ /HR Flow Range | OZ/Min Flow Range | Model Number | |
|--------------------|----------------------|----------------------|-------------------------------------|-------------------------|--------------|-------|
| | | | | | MNPT | MBSPT |
| 3/8" | .8 to 8 | 30 - 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

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

Variations

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

Option

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 | |

Calibration Range (see pipe fitting detail)

| | |
|-------------|-------------|
| 1 = Range 1 | 3 = Range 3 |
| 2 = Range 2 | 4 = Range 4 |

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 | 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 | |

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