ACRYLIC FLOWMETERS

FL-2000 Series

1 YEAR WARRANTY **NIST** **RoHS**
Optional

- ✔ **Easy-to-Read English or Metric Scales**
- ✔ **Water Ranges from 4 CCM to 20 GPM, Air Ranges from 40 CCM to 4000 LPM**
- ✔ **Threaded Brass Inserts for Quick Installation**
- ✔ **Easy Disassembly and Assembly for Maintenance**
- ✔ **Durable One-Piece Clear Acrylic Construction**
- ✔ **Stable, Easy-to-Read Float**
- ✔ **Superior Quality**

APPLICATIONS

- ✔ **Air Sampling Equipment**
- ✔ **Aquaculture**
- ✔ **Desalinization Equipment**
- ✔ **Gas Analyzers**
- ✔ **Medical Systems**
- ✔ **Photo Processing Equipment**
- ✔ **Water Treatment and Distribution Systems**

The FL-2000 Series offers a wide variety of precision flowmeters for use in medical, industrial, chemical, and laboratory applications at an economical price. Units are available with or without valves.

FL-2013 Air, shown smaller than actual size.

FL-2066-NV Water, shown smaller than actual size.

SPECIFICATIONS

Accuracy:
Models FL-2001–FL-2025: ±5% F.S.
Models FL-2031–FL-2069: ±3% F.S.
Models FL-2071–FL-2128: ±2% F.S.
Float: Black glass stainless steel
Body: Clear acrylic
Seals: Buna "O" Rings with brass or PVC fittings FKM "O"-Rings with stainless steel fittings
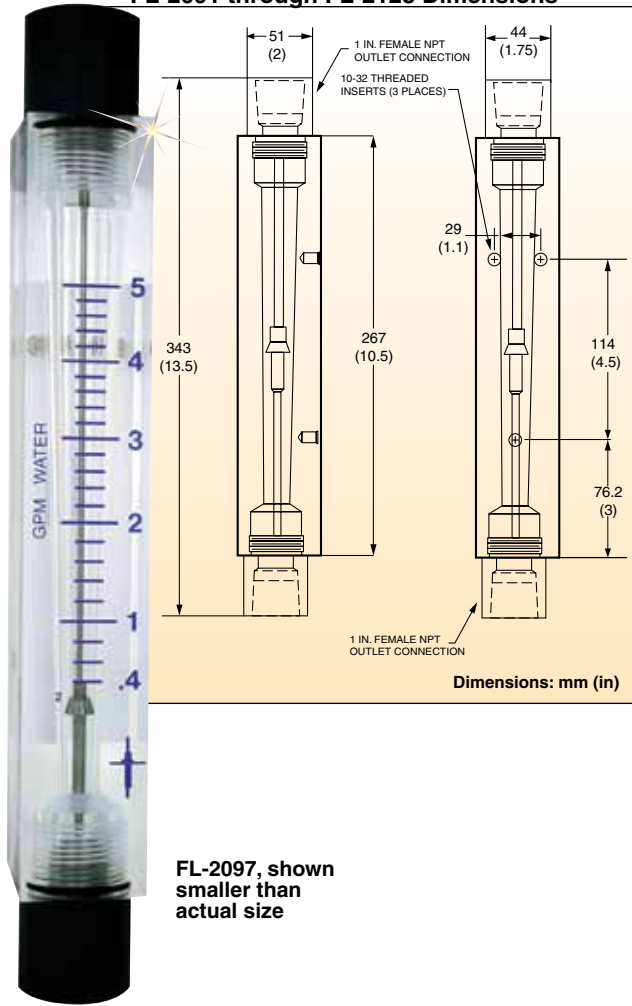**Pressure:** 100 psig max @ 21°C (70°F)
Temperature:
65°C (150°F) max @ 0 psig

Fittings: Brass std; stainless steel optional except for FL-2071 through FL-2128, which have 1 NPT PVC fittings only
Valves: Models FL-2001 through **FL-2069:** brass standard; stainless steel cartridge type (optional)
FL-2071 through FL-2128: Optional plastic in-line gate

FL-2091 through FL-2128 Dimensions

FL-2097, shown smaller than actual size

1 IN. FEMALE NPT OUTLET CONNECTION

10-32 THREADED INSERTS (3 PLACES)

51 (2)

44 (1.75)

29 (1.1)

343 (13.5)

267 (10.5)

114 (4.5)

76.2 (3)

1 IN. FEMALE NPT OUTLET CONNECTION

Dimensions: mm (in)

FL-2091 through FL-2128 Dimension

In Line								
Millimeters	343	50.8	267	25.4	28.6	44.5	114	76.2
Inches	13.5	2.0	10.5	1 FNPT	1.1	1.8	4.5	3.0

Accuracy: ±2% Full Scale In-Line

To Order

Model No.	Range SCFM of Air
FL-2091	3 to 25
FL-2092	4 to 50
FL-2093	10 to 100
	Range LPM of Air
FL-2094	100 to 700
FL-2095	100 to 1400
FL-2096	400 to 4000
	Range GPM of Water
FL-2097	0.4 to 5
FL-2098	1 to 10
FL-2099	2 to 20
	Range LPM of Water
FL-2126	1 to 19
FL-2127	4 to 36
FL-2128	5 to 75

Units are standard without valves.

To order with plastic integral gate valve, add suffix "-V" to model number for additional cost for FL-2090 Series, and FL-2120 Series.

For optional 10-point NIST certificate add suffix, "-NIST" to the model number, for additional cost and two weeks to the standard lead time.

Ordering Example: FL-2095, *flow meter, 100 to 1400 LPM Air*

FL-2127-V, *flow meter, 4 to 36 LPM water, with valves.*

Accuracy: ±2% Full Scale Panel Mount

To Order

Model No.	Range SCFM of Air
FL-2071	3 to 25
FL-2072	4 to 50
FL-2073	10 to 100
	Range LPM of Air
FL-2074	100 to 700
FL-2075	100 to 1400
FL-2076	400 to 3400
	Range GPM of Water
FL-2077	0.6 to 5
FL-2078	1 to 10
FL-2079	2 to 20
	Range LPM of Water
FL-2080	2 to 19
FL-2081	4 to 36
FL-2082	5 to 75

Units come complete with operator's manual.
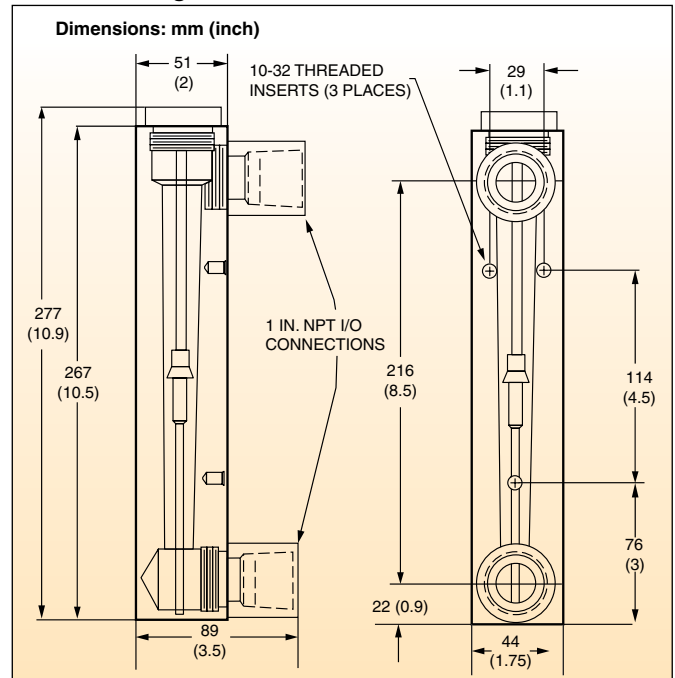*Units are standard without valves.*

To order with plastic integral gate valve, add suffix "-V" to model number for additional cost.

For optional 10-point NIST certificate add suffix, "-NIST" to the model number for additional cost and two weeks to the standard lead time.

Ordering Examples: FL-2075, *flow meter valve, 100 to 1400 LPM air.*

FL-2080, *flow meter valve, 2 to 19 LPM water.*

FL-2071 through FL-2082 Dimensions

Dimensions: mm (inch)

10-32 THREADED INSERTS (3 PLACES)

51 (2)

29 (1.1)

277 (10.9)

267 (10.5)

1 IN. NPT I/O CONNECTIONS

216 (8.5)

114 (4.5)

76 (3)

89 (3.5)

22 (0.9)

44 (1.75)

PANEL MOUNT							
Millimeters	273	267	50.8	25.4	216	22.2	114	76.2
Inches	10.9	10.5	2	1 FNPT	8.5	0.9	4.5	3

**FL-2060, Air,
shown smaller
than actual size.**

**FL-2066-NV,
shown smaller
than actual size.**

To Order

Model No.	Range SCFH of Air
FL-2031	0.4 to 5
FL-2032	1 to 10
FL-2033	2 to 20
FL-2034	4 to 40
FL-2035	10 to 100
FL-2036	14 to 150
FL-2037	20 to 200
	Range CCM of Air
FL-2038	100 to 1000
	Range LPM of Air
FL-2039	0.4 to 5
FL-2040	1 to 10
FL-2041	2 to 20
FL-2042	3 to 30
FL-2043	4 to 50
FL-2044	10 to 100
	Range CCM of Water
FL-2045	4 to 50
FL-2046	10 to 120
FL-2047	25 to 225
FL-2048	40 to 400
FL-2049	40 to 660
FL-2050	100 to 1500
FL-2051	200 to 3000
FL-2052	300 to 3700
	Range GPH of Water
FL-2053	1 to 10
FL-2054	2 to 25
FL-2055	4 to 50
FL-2056	6 to 60
	Range SCFM of Air
FL-2057	0.3 to 3

Units come standard with brass valves and operator's manual.
To order with stainless steel valve, add suffix "-SS" to model number for additional cost.
To order without a valve, add suffix "-NV" to model number and subtract from cost.
For optional 10-point NIST certificate add suffix, "-NIST" to the model number, for additional cost and two weeks to the standard lead time.
***Ordering Examples: FL-2036**, economical flow meter, with brass valve, 14 to 150 SCFH Air.*

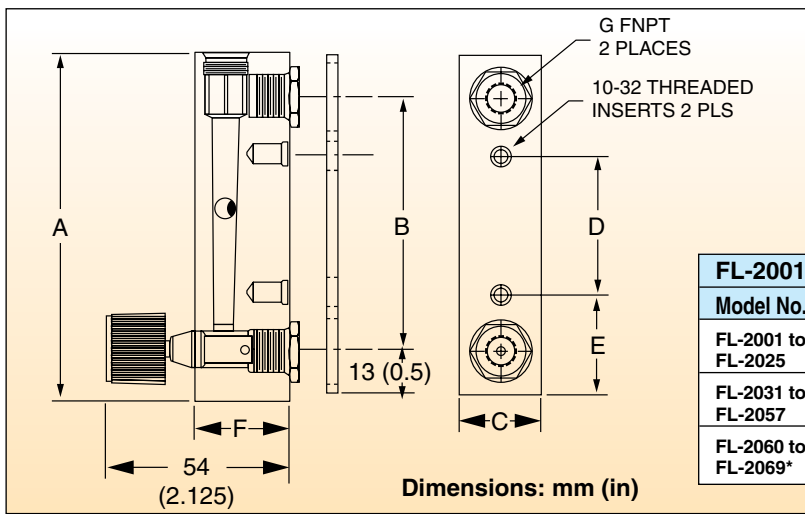***FL-2036-NV**, economical flow meter, without brass valve, 14 to 150 SCFH Air.*

Accuracy: ±3% Full Scale Panel Mount

To Order

Model No.	Range SCFM of Air
FL-2060	0.5 to 5
FL-2061	1 to 10
FL-2062	4 to 20
	Range LPM of Air
FL-2063	14 to 140
FL-2064	30 to 300
FL-2065	100 to 560
	Range GPM of Water
FL-2066	0.25 to 2.5
FL-2067	0.4 to 5
	Range LPM of Water
FL-2068	1 to 10
FL-2069	2 to 20

Units come standard with brass valves and operator's manual.
Dual scales supplied std: SCFM/SCFH, GPM/GPH and LPM/LPH
To order with stainless steel valve, add suffix "-SS" to model number for additional cost.
To order without a valve, add suffix "-NV" to model number and subtract from cost.
For optional 10-point NIST certificate add suffix, "-NIST" to the model number, for additional cost and two weeks to the standard lead time.
***Ordering Examples: FL-2060**, flow meter with brass valve, 0.5 to 5 SCFM.*
***FL-2069-NV**, flow meter no valve 2 to 20 LPM.*

**FL-2091, Air,
shown smaller than
actual size.**

**FL-2053, Water,
shown smaller than
actual size.**

**FL-2041-NV,
shown smaller
than actual size.**

Dimensions: mm (in)

FL-2001 through FL-2069 Dimensions mm (inch)							
Model No.	A	B	C	D	E	F	G
FL-2001 to FL-2025	102.0 (4.0)	76.2 (3.0)	25.4 (1)	41.3 (1.6)	30.2 (1.2)	28.6 (1.1)	⅛
FL-2031 to FL-2057	165.0 (6.5)	140.0 (5.5)	34.9 (1.4)	88.9 (3.5)	38.1 (1.5)	28.6 (1.1)	⅛
FL-2060 to FL-2069*	168.0 (6.6)	140.0 (5.5)	28.6 (1.1)	88.9 (3.5)	38.1 (1.5)	34.9 (1.4)	¼

All in this range do not include a ⅛" back plate

Accuracy: ±5% Full Scale Panel Mount

To Order	
Model No.	**Range SCFH of Air**
FL-2001	0.1 to 1.0
FL-2002	0.2 to 2.0
FL-2003	0.4 to 5.0
FL-2004	0.5 to 10.0
FL-2005	2.0 to 20.0
FL-2006	3.0 to 30.0
FL-2007	4.0 to 50.0
FL-2008	10.0 to 100.0
FL-2009	20.0 to 200.0
	Range LPM of Air
FL-2010	0.04 to 0.5
FL-2011	0.1 to 1.0
FL-2012	0.2 to 2.5
FL-2013	0.4 to 5.0
FL-2014	1.0 to 10.0
FL-2015	2.0 to 25.0
FL-2016	6.0 to 50.0
FL-2017	10.0 to 100.0
	Range SCCM of Water
FL-2018	5 to 50
FL-2019	10 to 100
FL-2020	20 to 240
	Range GPH of Water
FL-2021	0.2 to 2.0
FL-2022	0.4 to 5.0
FL-2023	1.0 to 10.0
FL-2024	2.0 to 20.0
FL-2025	4.0 to 40.0

Units come standard with brass valves and operator's manual.
To order with stainless steel valves, add suffix "-SS" to model number for additional cost.
To order without a valve, add suffix "-NV" to model number and subtract from cost.
For optional 10-point NIST certificate add suffix, "-NIST" to the model number, for additional cost and two weeks to the standard lead time.
***Ordering Examples:** FL-2005, economical flow meter with brass valve, 2 to 20 SCFH air.*
***FL-2005-NV**, economical flow meter without valve, 2 to 20 SCFH air.*

FL-2021-NV, Water, shown larger than actual size.

B-15d