OEM-STYLE ACRYLIC VARIABLE AREA FLOW METER

Capacities: Water: 6.5 GPH to 20 GPM
Air: 2 SCFH to 40 SCFM

FL4000 Series

1 YEAR WARRANTY | NIST | RoHS
Optional

- ✔ **50, 75, 127, and 250 mm (1.97, 2.96, 5, and 9.85") Scale Lengths**
- ✔ **Floats are Rod-Guided in Most Models**
- ✔ **Metering Valves Available**
- ✔ **Rear Inserts Provided for Panel Mounting**
- ✔ **Direct-Reading Scales**

FL4000 OEM-style variable area flow meter are precisely machined from solid acrylic blocks. They are available in 50, 75, 127, and 250 mm (1.97, 2.96, 5, and 9.85") scale lengths and have accuracies between 2 and 6%. Designed for front-panel mounting, the rear ports extend through the panel for easy hookup. Mounting threads are also provided. Units are available with and without valves.

SPECIFICATIONS

Construction: Acrylic tube, 316 SS float and guide rod (no guide rod for FL4211 through FL4215 air meters), PVC end fittings (brass on FL4200 Series), EPR O-rings, optional brass valve

Max Pressure/Temperature:
  Water Ranges:
  125 psig @ 21°C (70°F);
  54°C (130°F) at 0 psig
  Air Ranges:
  100 psig @ 21°C (70°F);
  38°C (100°F) @ 0 psig

Full Scale Accuracy/Repeatability:
  FL4200: 6/2%
  FL4300 and FL4400: 4/1%
  FL4500: 3/1/2%
  FL4600: 2/1/2%

FL4304, shown actual size.

FL4212-V, with optional valve, shown actual size.

FL4503-V, shown actual size.
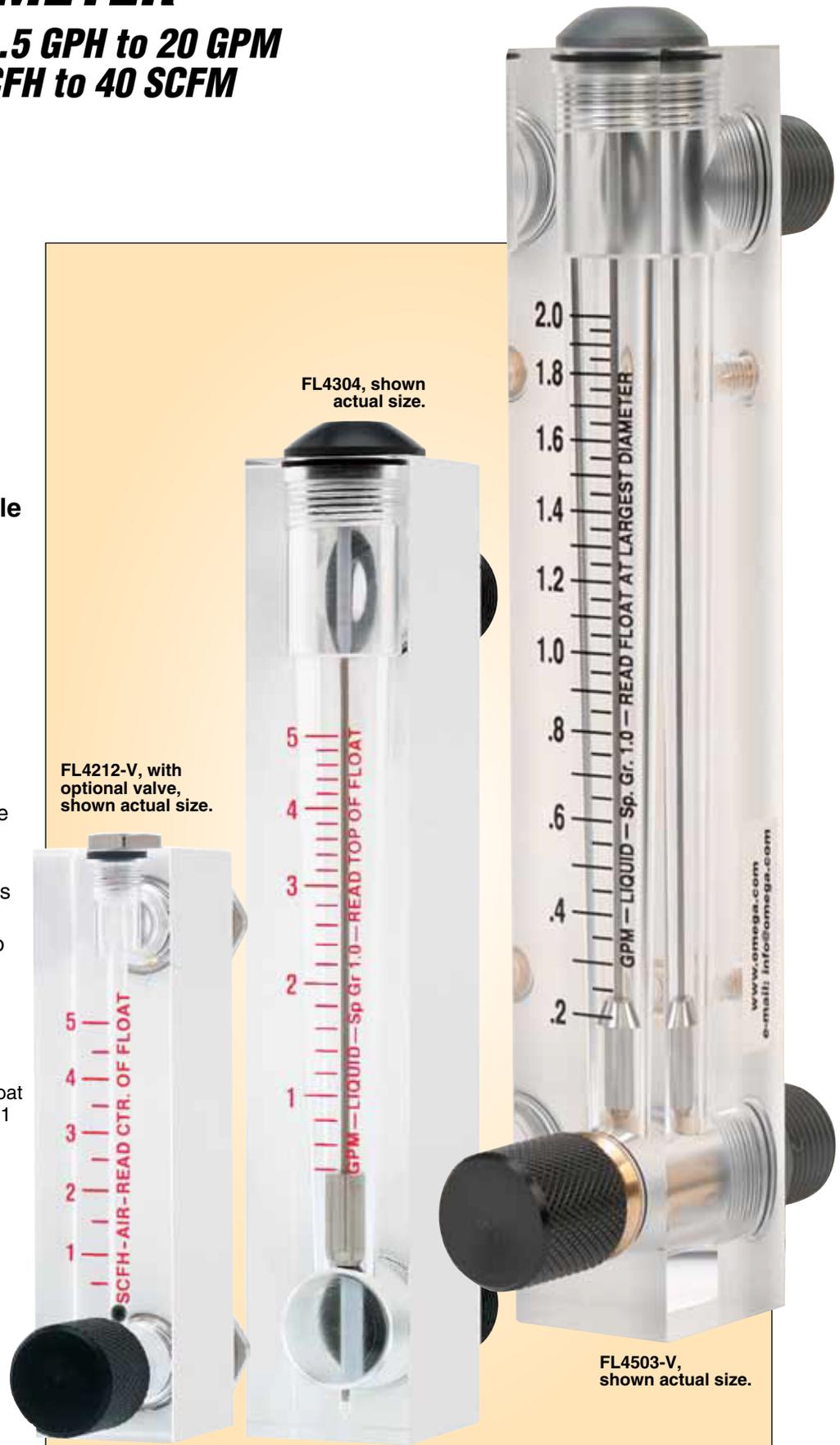
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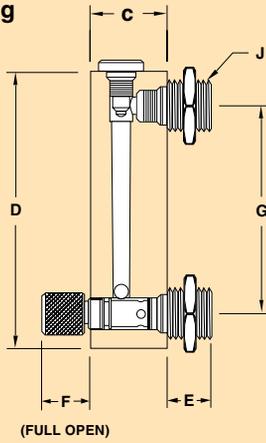
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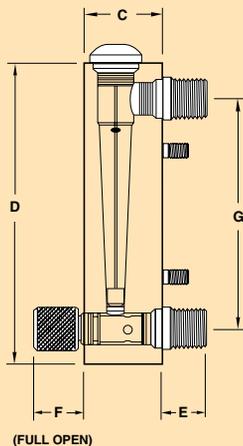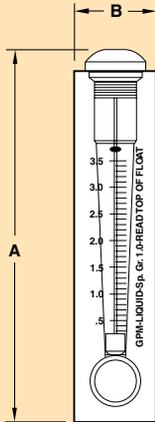
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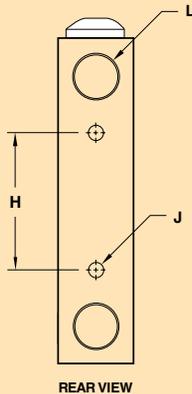
REAR VIEW

Connection: FL4200: ¼ **FNPT; FL4300 and FL-4500:** ¼ **FNPT x** ½ **MNPT; FL4400:** 1 **MNPT; FL4600:** ½ **FNPT**
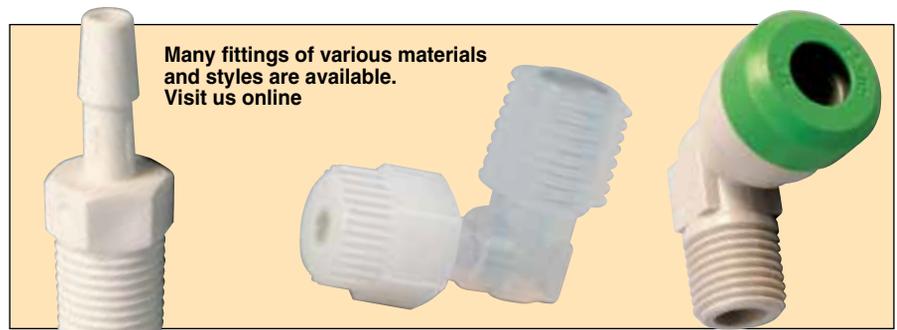
Many fittings of various materials and styles are available. Visit us online

Dimensions mm (inch)	FL4200	FL4300	FL4400	FL4500	FL4600
A	102 (4.0)	168 (6.6)	225 (8.9)	210 (8¼)	362 (14¼)
B	25 (1.0)	32 (1.3)	44 (1.8)	32 (1¼)	44 (1¾)
C	32 (1.3)	35 (1.4)	46 (1.9)	35 (1⅜)	46 (1¹³⁄₁₆)
D	105 (4.1)	173 (6.8)	232 (9.9)	213 (8⅜)	368 (14½)
E	13 (0.5)	25 (1.0)	32 (1.3)	25 (1)	19 (¾)
F	29 (1.1)	32 (1.3)	48 (1.9)	32 (1¼)	48 (1⅞)
G	76 (3.0)	127 (5.0)	165 (6.5)	164 (6⁷⁄₁₆)	311 (12¼)
H	—	76 (3.0)	102 (4.0)	100 (3¹⁵⁄₁₆)	222 (8¾)
L	17 (0.7)	25 (1.0)	35 (1.4)	25 (1)	32 (1¼)
J Mounting Thread Size*	†	¼ x 20	¼ x 20	¼ x 20	⅜ x 24

* Threaded stud.

† FL4200 has ⅞" hex lock nuts around ports; requires ¾" holes to be drilled through the panel.

To Order

Water				Air	
Model No.	Range (Maximum)*	Pressure Drop, inH2O**		Model No.	Range (Maximum)*
		No Valve	Valve		
FL4201	7 GPH	1**	1.3**	FL4211	2.6 SCFH
FL4202	12 GPH	15**	17**	FL4212	5.0 SCFH
FL4203	22 GPH	35**	51**	FL4213	10.0 SCFH
FL4204	44 GPH	149**	200**	FL4214	20.0 SCFH
FL4205	60 GPH	100**	250**	FL4215	30.0 SCFH
FL4301	1 GPM	18**	26**	FL4216	60.0 SCFH
FL4302	2.0 GPM	70**	125**	FL4217	100.0 SCFH
FL4303	3.5 GPM	200**	290**	FL4218	180.0 SCFH
FL4304	5 GPM	290**	440**	FL4219	4.0 SCFM
FL4401	10 GPM	53	220	FL4411	40.0 SCFM
FL4402	15 GPM	132	330	FL4412	62.0 SCFM
FL4403	20 GPM	200	400	—	—
FL4501	1 GPM	18	33	FL4511	4.0 SCFM
FL4502	100 GPH	45	75	FL4512	6.8 SCFM
FL4503	2 GPM	70	155	FL4513	8.0 SCFM
FL4504	5 GPM	240	400	FL4514	20.0 SCFM
FL4601	2 GPM	5	21	FL4611	8.5 SCFM
FL4602	3.5 GPM	13	50	FL4612	14.5 SCFM
FL4603	5 GPM	20	95	FL4613	20.0 SCFM
FL4604	10 GPM	110	270	FL4614	40.0 SCFM

Comes complete with operator's manual.
* Minimum flow rate = 10% of maximum flow rate listed.
** For water ranges. For air ranges, contact the Flow Department. For units with brass valve, add suffix "-V" to model number, additional cost for FL4200s, FL4300s, FL4400s, FL4500s and FL4600s.

For NIST calibration certificate, and "-NIST 5PT" to the model number for 5-point calibration, or "-NIST 10PT" for 10-point calibration for additional cost.

***Ordering Examples: FL4303-V,** acrylic variable area flow meter, 3.5 GPM flow rate.*
***FL-4613,** acrylic variable area flow meter, 40 SCFM max flow.*

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