

# OEM-STYLE ACRYLIC ROTAMETERS

Capacities: Water: 6.5 GPH to 20 GPM

Air: 2 SCFH to 40 SCFM

## FL4000 Series



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 rotameters 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:

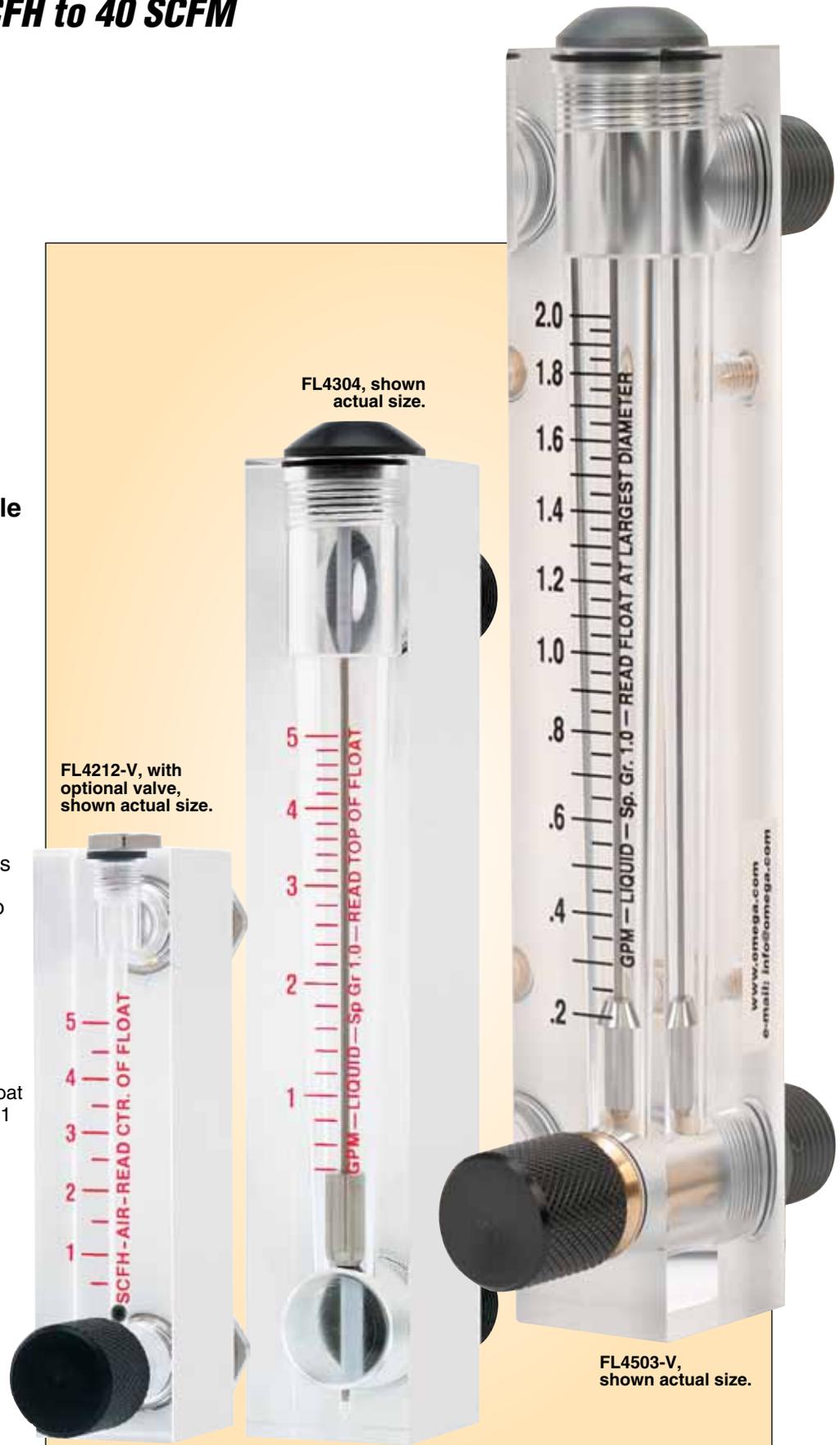
125 psig @ 21°C (70°F);  
54°C (130°F) at 0 psig

##### 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%

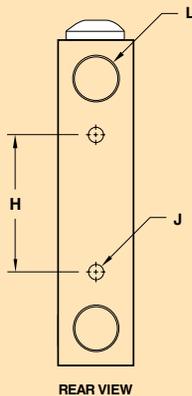
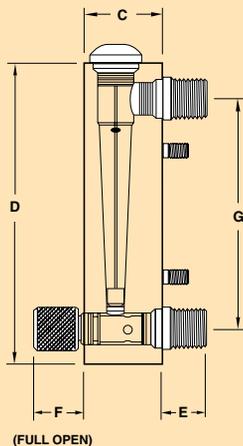
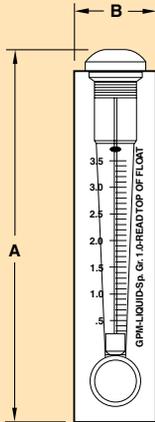
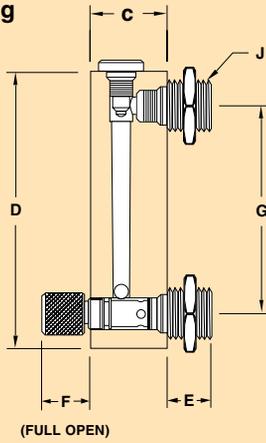


FL4304, shown actual size.

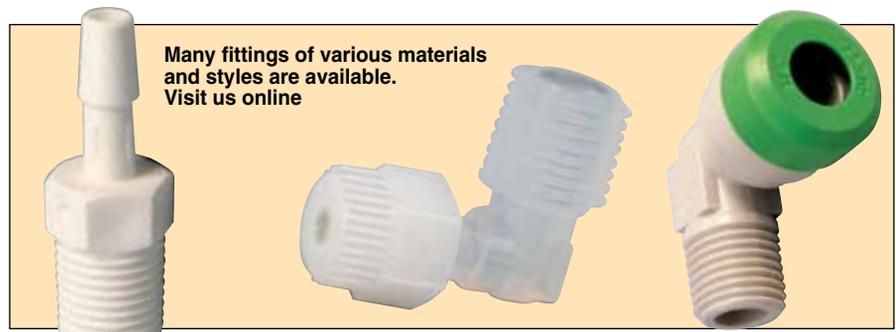
FL4212-V, with optional valve, shown actual size.

FL4503-V, shown actual size.

### Dimensional Drawing



Connection: FL4200: ¼ FNPT; FL4300 and FL-4500: ¼ FNPT x ½ MNPT; FL4400: 1 MNPT; FL4600: ½ FNPT



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 (1⅜)
D	105 (4.1)	173 (6.8)	232 (9.9)	213 (8⅝)	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 (6⅞)	311 (12¼)
H	—	76 (3.0)	102 (4.0)	100 (3⅜)	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 ⅝" hex lock nuts around ports; requires ¾" holes to be drilled through the panel.

### To Order

Model No.	Range (Maximum)*	Water 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 rotameter, 3.5 GPM flow rate.

FL-4613, acrylic rotameter, 40 SCFM max flow.