



Variable Area Glass Flowmeters

65 mm and 150 mm, $\pm 2\%$ FS Accuracy, Interchangeable Flowtubes, PTFE Options, Universal mm Scale

Models Select Chart

Model	Description
VA10411	Variable area glass flowmeter, glass float, max. flow rate 2.65 SCFH (1249 ml/min) air, 0.428 GPH (27 ml/min) water.
VA10412	Variable area glass flowmeter, SS float, max. flow rate 5.34 SCFH (2520 ml/min) air, 1.125 GPH (71 ml/min) water.
VA10413	Variable area glass flowmeter, glass float, max. flow rate 4.32 SCFH (2040 ml/min) air, 0.63 GPH (40 ml/min) water.
VA10414	Variable area glass flowmeter, SS float, max. flow rate 8.45 SCFH (3990 ml/min) air, 1.71 GPH (108 ml/min) water.
VA10417	Variable area glass flowmeter, glass float, max. flow rate 13.4 SCFH (6318 ml/min) air, 2.33 GPH (147 ml/min) water.
VA10418	Variable area glass flowmeter, SS float, max. flow rate 25.5 SCFH (12058 ml/min) air, 5.77 GPH (364 ml/min) water.
VA10419	Variable area glass flowmeter, glass float, max. flow rate 27.9 SCFH (13153 ml/min) air, 4.9 GPH (309 ml/min) water.
VA10420	Variable area glass flowmeter, SS float, max. flow rate 52.3 SCFH (24680 ml/min) air, 11.81 GPH (745 ml/min) water.
VA10421	Variable area glass flowmeter, glass float, max. flow rate 49.1 SCFH (23169 ml/min) air, 8.27 GPH (522 ml/min) water.
VA10422	Variable area glass flowmeter, SS float, max. flow rate 89.2 SCFH (42094 ml/min) air, 19.97 GPH (1260 ml/min) water.
VA10423	Variable area glass flowmeter, glass float, max. flow rate 2.29 SCFH (1081 ml/min) air, 0.329 GPH (20.8 ml/min) water.
VA10424	Variable area glass flowmeter, SS float, max. flow rate 4.51 SCFH (2129 ml/min) air, 0.930 GPH (58.7 ml/min) water.

VA1043	Variable area glass flowmeter, glass float, max. flow rate 0.104 SCFH (49 ml/min) air, 0.009 GPH (0.55 ml/min) water.
VA1044	Variable area glass flowmeter, SS float, max. flow rate 0.307 SCFH (145 ml/min) air, 0.038 GPH (2.38 ml/min) water.
VA1045	Variable area glass flowmeter, glass float, max. flow rate 0.220 SCFH (104 ml/min) air, 0.028 GPH (1.8 ml/min) water.
VA1046	Variable area glass flowmeter, SS float, max. flow rate 0.633 SCFH (299 ml/min) air, 0.122 GPH (7.7 ml/min) water.
VA1047	Variable area glass flowmeter, glass float, max. flow rate 0.43 SCFH (202 ml/min) air, 0.041 GPH (2.6 ml/min) water.
VA1048	Variable area glass flowmeter, SS float, max. flow rate 1.1 SCFH (522 ml/min) air, 0.19 GPH (12.0 ml/min) water.
VA12411	Variable area glass flowmeter, glass float, max. flow rate 2.65 SCFH (1249 ml/min) air, 0.428 GPH (27 ml/min) water.
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VA12418	Variable area glass flowmeter, SS float, max. flow rate 25.5 SCFH (12058 ml/min) air, 5.77 GPH (364 ml/min) water.
VA12419	Variable area glass flowmeter, glass float, max. flow rate 27.9 SCFH (13153 ml/min) air, 4.9 GPH (309 ml/min) water.

VA12420	Variable area glass flowmeter, SS float, max. flow rate 52.3 SCFH (24680 ml/min) air, 11.81 GPH (745 ml/min) water.
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VA1244	Variable area glass flowmeter, SS float, max. flow rate 0.307 SCFH (145 ml/min) air, 0.038 GPH (2.38 ml/min) water.
VA1245	Variable area glass flowmeter, glass float, max. flow rate 0.220 SCFH (104 ml/min) air, 0.028 GPH (1.8 ml/min) water.
VA1246	Variable area glass flowmeter, SS float, max. flow rate 0.633 SCFH (299 ml/min) air, 0.122 GPH (7.7 ml/min) water.
VA1247	Variable area glass flowmeter, glass float, max. flow rate 0.43 SCFH (202 ml/min) air, 0.041 GPH (2.6 ml/min) water.
VA1248	Variable area glass flowmeter, SS float, max. flow rate 1.1 SCFH (522 ml/min) air, 0.19 GPH (12.0 ml/min) water.
VA13411	Variable area glass flowmeter, glass float, max. flow rate 2.65 SCFH (1249 ml/min) air, 0.428 GPH (27 ml/min) water.
VA13413	Variable area glass flowmeter, glass float, max. flow rate 4.32 SCFH (2040 ml/min) air, 0.63 GPH (40 ml/min) water.

VA13417	Variable area glass flowmeter, glass float, max. flow rate 13.4 SCFH (6318 ml/min) air, 2.33 GPH (147 ml/min) water.
VA13419	Variable area glass flowmeter, glass float, max. flow rate 27.9 SCFH (13153 ml/min) air, 4.9 GPH (309 ml/min) water.
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VA1345	Variable area glass flowmeter, glass float, max. flow rate 0.220 SCFH (104 ml/min) air, 0.028 GPH (1.8 ml/min) water.
VA1347	Variable area glass flowmeter, glass float, max. flow rate 0.43 SCFH (202 ml/min) air, 0.041 GPH (2.6 ml/min) water.
VA1349	Variable area glass flowmeter, glass float, max. flow rate 2.09 SCFH (986 ml/min) air, 0.325 GPH (20.5 ml/min) water.
VA15011	Variable area glass flowmeter, glass float, flow rate 2.646 SCFH (1249 ml/min) air, 0.428 GPH (27 ml/min) water.
VA15013	Variable area glass flowmeter, glass float, flow rate 4.322 SCFH (2040 ml/min) air, 0.630 GPH (39.7 ml/min) water.
VA15017	Variable area glass flowmeter, glass float, flow rate 13.39 SCFH (6318 ml/min) air, 2.33 GPH (147 ml/min) water.
VA15019	Variable area glass flowmeter, glass float, flow rate 27.9 SCFH (13153 ml/min) air, 4.9 GPH (309 ml/min) water.
VA15021	Variable area glass flowmeter, glass float, flow rate 49 SCFH (23169 ml/min) air, 8.27 GPH (522 ml/min) water.
VA1505	Variable area glass flowmeter, glass float, flow rate 0.220 SCFH (104 ml/min) air, 0.028 GPH (1.8 ml/min) water.
VA1507	Variable area glass flowmeter, glass float, flow rate 0.428 SCFH (202 ml/min) air, 0.047 GPH (2.95 ml/min) water.
VA15411	Variable area glass flowmeter, glass float, flow rate 2.646 SCFH (1249 ml/min) air, 0.428 GPH (27 ml/min) water.
VA15413	Variable area glass flowmeter, glass float, flow rate 4.322 SCFH (2040 ml/min) air, 0.630 GPH (39.7 ml/min) water.

VA15417	Variable area glass flowmeter, glass float, flow rate 13.39 SCFH (6318 ml/min) air, 2.33 GPH (147 ml/min) water.
VA15419	Variable area glass flowmeter, glass float, flow rate 27.9 SCFH (13153 ml/min) air, 4.9 GPH (309 ml/min) water.
VA15421	Variable area glass flowmeter, glass float, flow rate 49 SCFH (23169 ml/min) air, 8.27 GPH (522 ml/min) water.
VA1545	Variable area glass flowmeter, glass float, flow rate 0.220 SCFH (104 ml/min) air, 0.028 GPH (1.8 ml/min) water.
VA1547	Variable area glass flowmeter, glass float, flow rate 0.428 SCFH (202 ml/min) air, 0.047 GPH (2.95 ml/min) water.
VA20429	Variable area glass flowmeter, glass float, max. flow rate 0.792 SCFH (374 ml/min) air, 0.087 GPH (5.5 ml/min) water.
VA20430	Variable area glass flowmeter, SS float, max. flow rate 1.725 SCFH (814 ml/min) air, 0.323 GPH (20.4 ml/min) water.
VA20433	Variable area glass flowmeter, glass float, max. flow rate 4.9 SCFH (2313 ml/min) air, 0.848 GPH (54 ml/min) water.
VA20434	Variable area glass flowmeter, SS float, max. flow rate 9.67 SCFH (4562 ml/min) air, 2.067 GPH (130 ml/min) water.
VA20435	Variable area glass flowmeter, glass float, max. flow rate 8.07 SCFH (3807 ml/min) air, 1.336 GPH (84 ml/min) water.
VA20436	Variable area glass flowmeter, SS float, max. flow rate 16.08 SCFH (7590 ml/min) air, 3.43 GPH (217 ml/min) water.
VA20437	Variable area glass flowmeter, glass float, max. flow rate 18.38 SCFH (8678 ml/min) air, 3.32 GPH (210 ml/min) water.
VA20438	Variable area glass flowmeter, SS float, max. flow rate 35.5 SCFH (16737 ml/min) air, 8.02 GPH (506 ml/min) water.
VA20439	Variable area glass flowmeter, glass float, max. flow rate 49.9 SCFH (23564 ml/min) air, 9.0 GPH (568 ml/min) water.
VA20440	Variable area glass flowmeter, SS float, max. flow rate 93.9 SCFH (44336 ml/min) air, 21.7 GPH (1370 ml/min) water.

	water.
VA22429	Variable area glass flowmeter, glass float, max. flow rate 0.792 SCFH (374 ml/min) air, 0.087 GPH (5.5 ml/min) water.
VA22430	Variable area glass flowmeter, SS float, max. flow rate 1.725 SCFH (814 ml/min) air, 0.323 GPH (20.4 ml/min) water.
VA22433	Variable area glass flowmeter, glass float, max. flow rate 4.9 SCFH (2313 ml/min) air, 0.848 GPH (54 ml/min) water.
VA22434	Variable area glass flowmeter, SS float, max. flow rate 9.67 SCFH (4562 ml/min) air, 2.067 GPH (130 ml/min) water.
VA22435	Variable area glass flowmeter, glass float, max. flow rate 8.07 SCFH (3807 ml/min) air, 1.336 GPH (84 ml/min) water.
VA22436	Variable area glass flowmeter, SS float, max. flow rate 16.08 SCFH (7590 ml/min) air, 3.43 GPH (217 ml/min) water.
VA22437	Variable area glass flowmeter, glass float, max. flow rate 18.38 SCFH (8678 ml/min) air, 3.32 GPH (210 ml/min) water.
VA22438	Variable area glass flowmeter, SS float, max. flow rate 35.5 SCFH (16737 ml/min) air, 8.02 GPH (506 ml/min) water.
VA22439	Variable area glass flowmeter, glass float, max. flow rate 49.9 SCFH (23564 ml/min) air, 9.0 GPH (568 ml/min) water.
VA22440	Variable area glass flowmeter, SS float, max. flow rate 93.9 SCFH (44336 ml/min) air, 21.7 GPH (1370 ml/min) water.
VA23429	Variable area glass flowmeter, glass float, max. flow rate 0.792 SCFH (374 ml/min) air, 0.087 GPH (5.5 ml/min) water.
VA23433	Variable area glass flowmeter, glass float, max. flow rate 4.9 SCFH (2313 ml/min) air, 0.848 GPH (54 ml/min) water.
VA23435	Variable area glass flowmeter, glass float, max. flow rate 8.07 SCFH (3807 ml/min) air, 1.336 GPH (84 ml/min)

	water.
VA23437	Variable area glass flowmeter, glass float, max. flow rate 18.38 SCFH (8678 ml/min) air, 3.32 GPH (210 ml/min) water.
VA23439	Variable area glass flowmeter, glass float, max. flow rate 49.9 SCFH (23564 ml/min) air, 21.7 GPH (1370 ml/min) water.
VA25025	Variable area glass flowmeter, glass float, flow rate 0.104 SCFH (49 ml/min) air, 0.01 GPH (0.61 ml/min) water.
VA25029	Variable area glass flowmeter, glass float, flow rate 0.792 SCFH (374 ml/min) air, 0.087 GPH (5.5 ml/min) water.
VA25031	Variable area glass flowmeter, glass float, flow rate 1.75 SCFH (825 ml/min) air, 0.262 GPH (16.5 ml/min) water.
VA25035	Variable area glass flowmeter, glass float, flow rate 8.07 SCFH (3807 ml/min) air, 1.34 GPH (84.3 ml/min) water.
VA25037	Variable area glass flowmeter, glass float, flow rate 18.39 SCFH (8678 ml/min) air, 3.32 GPH (209 ml/min) water.
VA25425	Variable area glass flowmeter, glass float, flow rate 0.104 SCFH (49 ml/min) air, 0.01 GPH (0.61 ml/min) water.
VA25429	Variable area glass flowmeter, glass float, flow rate 0.792 SCFH (374 ml/min) air, 0.087 GPH (5.5 ml/min) water.
VA25431	Variable area glass flowmeter, glass float, flow rate 1.75 SCFH (825 ml/min) air, 0.262 GPH (16.5 ml/min) water.
VA25435	Variable area glass flowmeter, glass float, flow rate 8.07 SCFH (3807 ml/min) air, 1.34 GPH (84.3 ml/min) water.
VA25437	Variable area glass flowmeter, glass float, flow rate 18.39 SCFH (8678 ml/min) air, 3.32 GPH (209 ml/min) water.

Accessories

Model	Description
VA7	Acrylic tripod for single meter.
VA81	High precision valve, 16-turn, flow rate 0-200 mL/min air (0-6 mL/min water).
VA82	High precision valve, 16-turn, flow rate 201-400 mL/min air (7-12 mL/min water).
VA83	High precision valve, 16-turn, flow rate 401-1000 mL/min air (13-26 mL/min water).

VA84	High precision valve, 16-turn, flow rate 1001-2500 mL/min air (27-80 mL/min water).
VA85	High precision valve, 16-turn, flow rate 2501-6200 mL/min air (81-200 mL/min water).
VA86	High precision valve, 16-turn, flow rate 6201 and above mL/min air (201 and above mL/min water).

Specifications:-

Service	:	Compatible gases or liquids.
Wetted Materials	:	Flowtube: Borosilicate glass; Floats: Glass or SS (sapphire, Carboloy and tantalum are optional); Float stops: PTFE; End fittings: Anodized aluminum, 316 SS, brass or PTFE; Packings: Fluoroelastomer; O-rings: Buna-N on aluminum models and brass models, fluoroelastomer on SS models, PTFE on VAX5XX models.
Temperature Limit	:	250°F (121°C); VAX5XX: -15 to 150°F (-26 to 65°C).
Pressure Limit	:	200 psig (13.8 bar); VAX5XX: 100 psig (6.7 bar).
Accuracy	:	±2% FS @ 70°F (21.1°C) and 14.7 psia (1 atm absolute); VA1043, VA1243, VA1343, VA25425, VA25025: ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 @ absolute).
Repeatability	:	±0.25% FS.
Scales	:	Universal 65 mm or 150 mm with correlation charts.
Turn-Down Ratio	:	10:1.
Connections	:	Two 1/8" female NPT.
Mounting	:	Vertical.
Valve	:	6-turn needle (standard), optional 16-turn high precision valve.
Valve Orifice	:	Acetal on aluminum models and brass models, PCTFE on stainless steel models; PTFE on VAX5XX models.

