



SERIES VF | VISI-FLOAT® ACRYLIC FLOWMETER



FEATURES/BENEFITS

- Bodies are cut and precision machined from solid, clear acrylic blocks allowing for complete visual inspection
- White background allows for better visibility of the float increasing reading accuracy
- Direct reading scales are hot stamped into the plastic eliminating the need for troublesome conversions and increasing product operating life
- Precision machined tapered bore enables high repeatability
- Low installation costs with back or end connection options with metal mounting inserts that can be supported directly by system piping

APPLICATIONS

- Medical equipment
- Laboratory equipment
- Air samplers
- Gas analyzers
- Pollution monitors
- Chemical injectors
- Cabinet purging

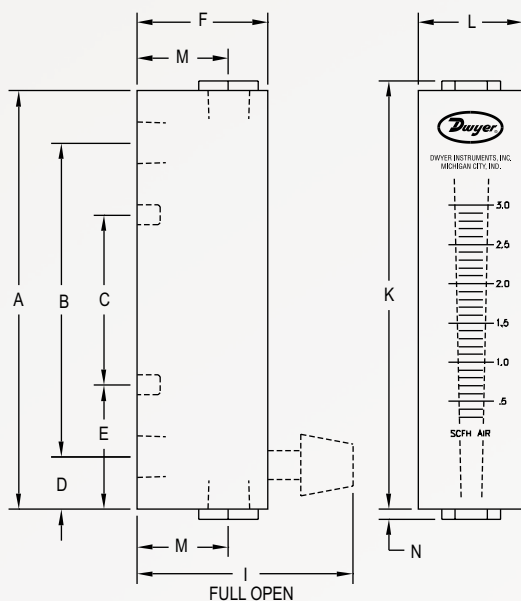
DESCRIPTION

The **Series VF Visi-Float® Acrylic Flowmeter** is a line of direct reading, precision machined, clear acrylic body flowmeters suitable for both gas and liquid applications. The fabrication of the Visi-Float® flowmeter is backed by over 60 years of experience in acrylic instrument machining. This series consists of 2" (51 mm) and 4" (102 mm) scales with optional precision metering valves.

SPECIFICATIONS

Service	Compatible gases and liquids.
Wetted Materials	Body: Acrylic plastic; O-ring: Buna-N (fluoroelastomer available); Metal parts: Brass standard, SS optional; Float: SS, black glass, aluminum, K monel depending on range.
Accuracy	VFA: 5% FS; VFB: 3% FS.
Temperature and Pressure Limits	Without valve: 100 psig (6.9 bar) @ 150°F (65°C); 150 psig (10 bar) @ 100°F (38°C); With valve: 100 psig (6.9 bar) @ 120°F (48°C).
Process Connection	1/8" female NPT. VFB ranges 85 and 86 have 1/4" NPT back connections or 3/8" NPT end connections. These ranges are not available with brass valves.
Scale Length	VFA: 2" typical length; VFB: 4" typical length.
Mounting Connection	Mount in vertical position.
Weight	VFA: 4.0 to 4.8 oz (.11 to .14 kg); VFB: 7.2 to 8.8 oz (.20 to .25 kg).

DIMENSIONS



DIMENSIONS in [mm]		
	Model VFA	Model VFB
A	4 [101.6]	6-1/2 [165.1]
B	3 [76.20] 1/8" female NPT	5-1/2 [139.7] 1/8" female NPT*
C	1-5/8 [41.28] 10-32 thread	3-1/2 [88.90] 10-32 thread
D	1/2 [12.70]	1/2 [12.70]
E	1-3/16 [30.16]	1-1/2 [38.10]
F	1-1/4 [31.75]	1-1/4 [31.75]
I	2-1/16 [52.39] (BV or SSV only)	2-1/16 [52.39] (BV or SSV only)
K	4-3/32 [104.0]	6-19/32 [169.9]
L	1 [25.40]	1-3/8 [34.93]
M	7/8 [22.23] (EC only)	7/8 [22.23] (EC only)
N	3/32 [2.381] (EC only)	3/32 [2.381] (EC only)

*VFB ranges 85 and 86 have 1/4" NPT back connections or 3/8" NPT end connections.

HOW TO ORDER

Use the **bold** characters from the chart below to construct a product code.

SERIES

VFA: 2" (50.8 mm) scale
VFB: 4" (101.6 mm) scale

RANGE

VFA

- 1: 0.1 to 1 SCFH air
- 2: 0.2 to 2 SCFH air
- 3: 0.6 to 5 SCFH air
- 4: 1 to 10 SCFH air
- 5: 2 to 20 SCFH air
- 6: 4 to 30 SCFH air
- 7: 5 to 50 SCFH air
- 8: 10 to 100 SCFH air
- 9: 20 to 200 SCFH air
- 21: 0.06 to 0.5 LPM air
- 22: 0.15 to 1 LPM air
- 23: 0.6 to 5 LPM air
- 24: 1 to 10 LPM air
- 25: 3 to 25 LPM air
- 26: 6 to 50 LPM air

VFB

- 27: 10 to 100 LPM air
- 32: 6 to 50 CC/min water
- 33: 10 to 100 CC/min water
- 34: 20 to 200 CC/min water
- 41: 0.6 to 5 GPH water
- 42: 2 to 10 GPH water
- 43: 3 to 20 GPH water
- 44: 8 to 40 GPH water
- 50: 0.3 to 3 SCFH air
- 91: 1 to 10 SCFH air
- 51: 2 to 20 SCFH air
- 52: 4 to 40 SCFH air
- 53: 10 to 100 SCFH air
- 54: 10 to 150 SCFH air

- 55: 20 to 200 SCFH air
- 90: 0.3 to 3 SCFH air
- 60: 100 to 1000 CC/min air
- 65: 0.2 to 4 LPM air
- 66: 1 to 10 LPM air
- 67: 1 to 20 LPM air
- 68: 3 to 30 LPM air
- 69: 4 to 40 LPM air
- 82: 2 to 30 CC/min water
- 80: 0.5 to 12 GPH water
- 83: 1 to 20 GPH water
- 84: 6 to 40 GPH water
- 81: 6 to 60 GPH water
- 85: 0.2 to 2 GPM water
- 86: 0.6 to 5 GPM water

VFA **-1** **-SSV** **-NIST**

OPTIONS

- ARB: Arbitrary scale
- AT: Aluminum tag
- EC: End connections
- NIST: NIST traceable calibration certificate
- PF: Adjustable pointer flag
- PTFE: PTFE valve seat
- SPCL: Special cleaning
- SS: Stainless steel wetted parts
- VIT: Fluoroelastomer O-rings
- WL: Without logo

VALVE

- BLANK: Standard (no valve)
- BV: Brass valve
- SSV: Stainless steel valve

ACCESSORIES

Model	Description
RKA	Regulator kit for Series VFA
RK-RMB	Regulator kit for Series VFB

Regulator Kits

Available as optional extras for the Visi-Float® flowmeter models. Recommended for use where inlet air pressure fluctuates widely and constant flow is required. The regulator maintains a constant pressure differential of approximately 3 ±0.15 psig. Supply pressure must be at least 3 psig above the flowmeter discharge to operate. The standard regulator may be used up to 200 scfh.



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Dwyer Instruments, Inc. Product/Service