

## 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

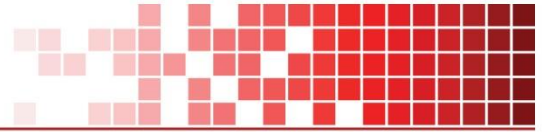
The **SERIES VF** Visi-Float® Flowmeters are a line of direct reading, precision machined, clear acrylic body flowmeters suitable for both gas and liquid applications. The fabrication of the Visi-Float® is backed by over 60 years of experience in acrylic instrument machining. This series consists of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



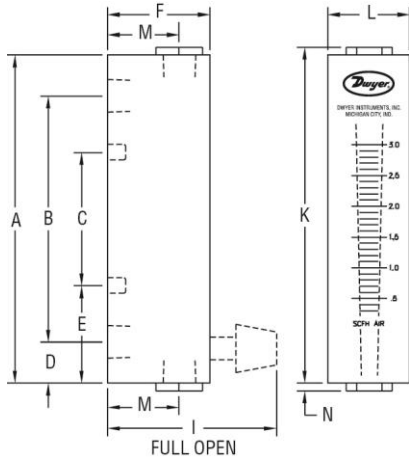
### SPECIFICATIONS

<b>Service</b>	Compatible gases and liquids.
<b>Wetted Materials</b>	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.
<b>Accuracy</b>	VFA: 5% FS; VFB: 3% FS.
<b>Temperature &amp; Pressure Limits</b>	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).
<b>Process Connection</b>	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.
<b>Scale Length</b>	VFA: 2" typical length; VFB: 4" typical length.
<b>Mounting Connection</b>	Mount in vertical position.
<b>Weight</b>	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

<p><b>SERIES</b></p> <p>VFA - 2" (50.8 mm) scale VFB - 4" (101.6 mm) scale</p> <p><b>RANGE</b></p> <p><b>VFA</b></p> <ul style="list-style-type: none"> <li>-1 - 0.1 to 1 SCFH Air</li> <li>-2 - 0.2 to 2 SCFH Air</li> <li>-3 - 0.6 to 5 SCFH Air</li> <li>-4 - 1 to 10 SCFH Air</li> <li>-5 - 2 to 20 SCFH Air</li> <li>-6 - 4 to 30 SCFH Air</li> <li>-7 - 5 to 50 SCFH Air</li> <li>-8 - 10 to 100 SCFH Air</li> <li>-9 - 20 to 200 SCFH Air</li> <li>-21 - 0.06 to 0.5 LPM Air</li> <li>-22 - 0.15 to 1 LPM Air</li> <li>-23 - 0.6 to 5 LPM Air</li> <li>-24 - 1 to 10 LPM Air</li> <li>-25 - 3 to 25 LPM Air</li> <li>-26 - 6 to 50 LPM Air</li> <li>-27 - 10 to 100 LPM Air</li> <li>-32 - 6 to 50 CC/min Water</li> <li>-33 - 10 to 100 CC/min Water</li> <li>-34 - 20 to 200 CC/min Water</li> <li>-41 - 0.6 to 5 GPH Water</li> <li>-42 - 2 to 10 GPH Water</li> <li>-43 - 3 to 20 GPH Water</li> <li>-44 - 8 to 40 GPH Water</li> </ul> <p><b>VFB</b></p> <ul style="list-style-type: none"> <li>-50 - 0.3 to 3 SCFH Air</li> <li>-91 - 1 to 10 SCFH Air</li> <li>-51 - 2 to 20 SCFH Air</li> <li>-52 - 4 to 40 SCFH Air</li> <li>-53 - 10 to 100 SCFH Air</li> <li>-54 - 10 to 150 SCFH Air</li> <li>-55 - 20 to 200 SCFH Air</li> <li>-90 - 0.3 to 3 SCFM Air</li> <li>-60 - 100 to 1000 CC/min Air</li> <li>-65 - 0.2 to 4 LPM Air</li> <li>-66 - 1 to 10 LPM Air</li> <li>-67 - 1 to 20 LPM Air</li> <li>-68 - 3 to 30 LPM Air</li> <li>-69 - 4 to 40 LPM Air</li> <li>-82 - 2 to 30 CC/min Water</li> <li>-80 - 0.5 to 12 GPH Water</li> <li>-83 - 1 to 20 GPH Water</li> <li>-84 - 6 to 40 GPH Water</li> <li>-81 - 6 to 60 GPH Water</li> <li>-85 - 0.2 to 2 GPM Water</li> <li>-86 - 0.6 to 5 GPM Water</li> </ul>	<p><b>VFA</b></p> <p><b>-1</b></p> <p><b>-SSV</b></p> <p><b>-NIST</b></p>	<p><b>OPTIONS</b></p> <ul style="list-style-type: none"> <li>-ARB - Arbitrary scale</li> <li>-AT - Aluminum tag</li> <li>-EC - End connections</li> <li>-NIST - NIST traceable calibration certificate</li> <li>-PF - Adjustable pointer flag</li> <li>-PTFE - PTFE valve seat</li> <li>-SPCL - Special cleaning</li> <li>-SS - Stainless steel wetted parts</li> <li>-VIT - Fluoroelastomer O-rings</li> <li>-WL - Without logo</li> </ul> <p><b>VALVE</b></p> <ul style="list-style-type: none"> <li>BLANK - Standard (no valve)</li> <li>BV - Brass valve</li> <li>SSV - Stainless steel valve</li> </ul>
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## 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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