



## 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

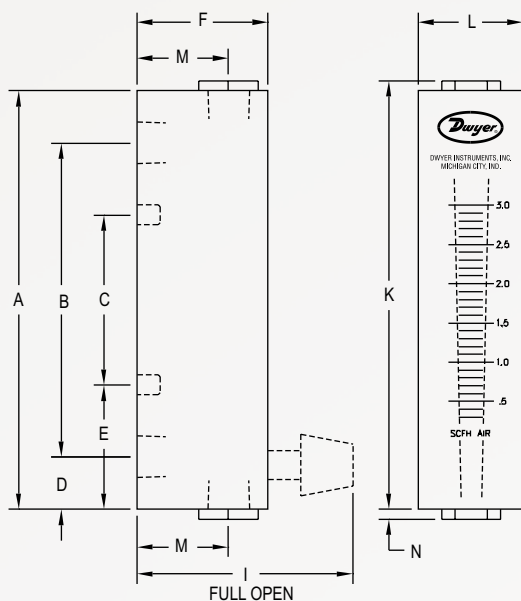
### DESCRIPTION

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

|  |  |
|--|--|
| <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 and 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]<br>1/8" female NPT       | 5-1/2 [139.7]<br>1/8" female NPT*  |
| C                  | 1-5/8 [41.28]<br>10-32 thread      | 3-1/2 [88.90]<br>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]<br>(BV or SSV only) | 2-1/16 [52.39]<br>(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    | -27: 10 to 100 LPM air      | -55: 20 to 200 SCFH air     |
| -2: 0.2 to 2 SCFH air    | -32: 6 to 50 CC/min water   | -90: 0.3 to 3 SCFM air      |
| -3: 0.6 to 5 SCFH air    | -33: 10 to 100 CC/min water | -60: 100 to 1000 CC/min air |
| -4: 1 to 10 SCFH air     | -34: 20 to 200 CC/min water | -65: 0.2 to 4 LPM air       |
| -5: 2 to 20 SCFH air     | -41: 0.6 to 5 GPH water     | -66: 1 to 10 LPM air        |
| -6: 4 to 30 SCFH air     | -42: 2 to 10 GPH water      | -67: 1 to 20 LPM air        |
| -7: 5 to 50 SCFH air     | -43: 3 to 20 GPH water      | -68: 3 to 30 LPM air        |
| -8: 10 to 100 SCFH air   | -44: 8 to 40 GPH water      | -69: 4 to 40 LPM air        |
| -9: 20 to 200 SCFH air   |                             | -82: 2 to 30 CC/min water   |
| -21: 0.06 to 0.5 LPM air | VFB                         | -80: 0.5 to 12 GPH water    |
| -22: 0.15 to 1 LPM air   | -50: 0.3 to 3 SCFH air      | -83: 1 to 20 GPH water      |
| -23: 0.6 to 5 LPM air    | -91: 1 to 10 SCFH air       | -84: 6 to 40 GPH water      |
| -24: 1 to 10 LPM air     | -51: 2 to 20 SCFH air       | -81: 6 to 60 GPH water      |
| -25: 3 to 25 LPM air     | -52: 4 to 40 SCFH air       | -85: 0.2 to 2 GPM water     |
| -26: 6 to 50 LPM air     | -53: 10 to 100 SCFH air     | -86: 0.6 to 5 GPM water     |
|                          | -54: 10 to 150 SCFH air     |                             |

**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                  |
|---------------|------------------------------|
| <b>RKA</b>    | Regulator kit for Series VFA |
| <b>RK-RMB</b> | 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.



Product Line: **Flowmeters**  
Product/Service: **Flowmeters**



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