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

<table>
<thead>
<tr>
<th>Service</th>
<th>Compatible gases and liquids.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetted Materials</td>
<td>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.</td>
</tr>
<tr>
<td>Accuracy</td>
<td>VFA: 5% FS; VFB: 3% FS.</td>
</tr>
<tr>
<td>Temperature &amp; Pressure Limits</td>
<td>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).</td>
</tr>
<tr>
<td>Process Connection</td>
<td>1/8&quot; female NPT, VFB ranges 85 and 86 have 1/4&quot; NPT back connections or 3/8&quot; NPT end connections. These ranges are not available with brass valves.</td>
</tr>
<tr>
<td>Scale Length</td>
<td>VFA: 2&quot; typical length; VFB: 4&quot; typical length.</td>
</tr>
<tr>
<td>Mounting Connection</td>
<td>Mount in vertical position.</td>
</tr>
<tr>
<td>Weight</td>
<td>VFA: 4.0 to 4.8 oz (.11 to .14 kg); VFB: 7.2 to 8.8 oz (.20 to .25 kg).</td>
</tr>
</tbody>
</table>
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
- -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

**VFB**
- -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
- -56 - 60 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

**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
- -VT - Fluoroelastomer O-rings
- -WL - Without logo

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

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Regulator Kits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RKA</td>
<td>Regulator kit for Series VFA</td>
<td>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.</td>
</tr>
<tr>
<td>RK-RMB</td>
<td>Regulator kit for Series VFB</td>
<td></td>
</tr>
</tbody>
</table>

Important Notice: Dwyer Instruments, Inc. reserves the right to make changes to or discontinue any product or service identified in this publication without notice. Dwyer advises its customers to obtain the latest version of the relevant information to verify, before placing any orders, that the information being relied upon is current.

Dwyer Instruments, Inc.
T: 219-879-8000 | F: 219-872-9057 | info@dwyermail.com
800-872-9141

DS-VF | 11/16