



### **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**

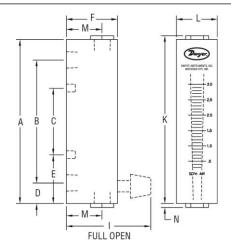
	Compatible gases and liquids.
Wetted Materials	Body: Acrylic plastic; O-ring: Buna-N (fluoroelastomer available); Metal parts: Brass standard, SS optional; Float: SS, black glass, aluminum, K monel depending on range.
Accuracy	VFA: 5% FS; VFB: 3% FS.
Temperature & Pressure Limits	Without valve: 100 psig (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**



DII	DIMENSIONS in [mm]			
	Model VFA	Model VFB		
Α	4 [101.6]	6-1/2 [165.1]		
В	3 [76.20]	5-1/2 [139.7]		
	1/8" female NPT	1/8" female NPT*		
С	1-5/8 [41.28]	3-1/2 [88.90]		
	10-32 thread	10-32 thread		
D	1/2 [12.70]	1/2 [12.70]		
Ε	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]	2-1/16 [52.39]		
	(BV or SSV only)	(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				
COI	connections or 3/8" NPT end connections.			

#### **HOW TO ORDER**

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

**VFA** -1 SERIES VFA - 2" (50.8 mm) scale VFB - 4" (101.6 mm) scale **RANGE** VFA VFB -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 -83 - 1 to 20 GPH Water -84 - 6 to 40 GPH 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 SCFM 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

-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 -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.

-SSV

-NIST



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