



# VISI-FLOAT® ACRYLIC FLOWMETERS

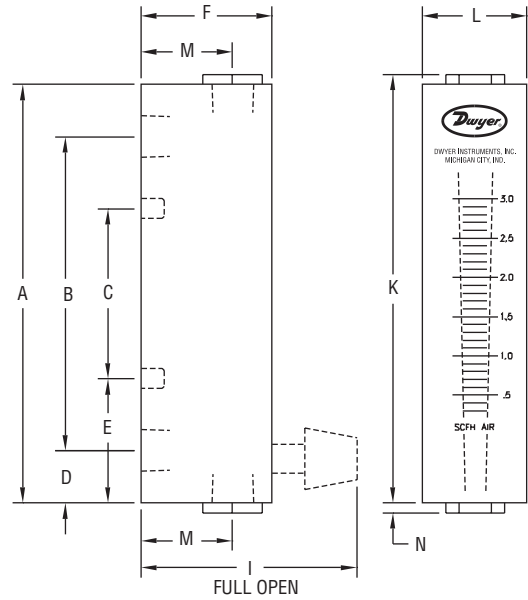
Used to Indicate or Manually Control Air or Water Flow



Model VFB



Model VFA-SSV



DIMENSIONS - FLOWMETER		
	Model VFA	Model VFB
A	4 [101.6]	6-1/2 [165.1]
B	3 [76.20]; 1/8 NPT conn.	5-1/2 [139.7]; 1/8 NPT conn.
C	1-5/8 [41.28]; 10-32 thd	3-1/2 [88.90]; 10-32 thd
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]; Open	2-1/16 [52.39]; Open
K	4-3/32 [104.0]	6-11/16 [169.9]
L	1 [25.40]	1-3/8 [34.93]
M	7/8 [22.23]; 1/8 NPT	7/8 [22.23]; 1/8 NPT
N	3/32 [2.381]	3/32 [2.381]



Scan here to watch product video

The **SERIES VF** Visi-Float® flowmeter bodies are cut and precision machined from solid, clear acrylic plastic blocks. This construction not only produces a handsome finished product, but permits complete visual inspection. As a result, the Visi-Float® flowmeters are especially popular for medical and laboratory equipment applications.

**SCALES ARE EASY TO READ** — The front scale location and white background provides excellent visibility. The direct reading scales are hot stamped into the plastic and will not wear off. Mid-range calibration is established with a master flowmeter. Accuracy is  $\pm 5\%$  of full scale for VFA models,  $\pm 3\%$  for VFB. Scales average 2" long on the VFA models, 4" long on VFB.

**DURABLE AND ATTRACTIVE CONSTRUCTION** — The machined acrylic bodies of the Visi-Float® flowmeters are practically unbreakable. Fabrication is backed by over 60 years of experience in acrylic instrument machining. The tapered bore is precision machined to a smooth surface that provides perfect visibility of the indicating float. The VFA and VFB models are available with either brass or stainless steel inlet and outlet connections and are tapped for 1/8" NPT thread. VFB models 85 and 86 have either 1/4" back or 3/8" end connections. All standard models employ Buna-N O-rings for leak proof operation and are available with either back or end connections for horizontal or vertical piping. Precision metering valves in brass or stainless steel are available for most VFA and VFB models.

**EASY INSTALLATION** — All Visi-Float® flowmeters have metal mounting inserts on rear for panel mounting. They can also be supported directly by system piping.

## SPECIFICATIONS

**Service:** Compatible gases & 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.

**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).

**Accuracy:** VFA = 5% of FS; VFB = 3% of FS.

**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 not available with brass valves.

**Scale Length:** VFA 2" typical length; VFB 4" typical length.

**Mounting Orientation:** 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).



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RANGE CHART - VFA 2" SCALE - POPULAR RANGES			
Range No.	SCFH Air	Range No.	LPM Air
1	.1 to 1	21	.06 to 0.5
2	.2 to 2	22	.15 to 1
3	.6 to 5	23	.6 to 5
4	1 to 10	24	1 to 10
5	2 to 20	25	3 to 25
6	4 to 30	26	6 to 50
7	5 to 50	27	10 to 100
8	10 to 100		
9	20 to 200		
Range No.	CC/Min. Water	Range No.	GPH Water
32	6 to 50	41	.6 to 5
33	10 to 100	42	2 to 10
34	20 to 200	43	3 to 20
		44	8 to 40

RANGE CHART - VFB 4" SCALE - POPULAR RANGES			
Range No.	SCFH Air	Range No.	LPM Air
50	.3 to 3	65	.2 to 4
91*	1 to 10	66	1 to 10
51*	2 to 20	67	1 to 20
52	4 to 40	68	3 to 30
53*	10 to 100	69	4 to 40
54*	10 to 150		
55*	20 to 200		
Range No.	SCFM Air	Range No.	GPH Water
90	.3 to 3	80*	.5 to 12
Range No.	CC/Min. Air	83*	1 to 20
60	100 to 1000	84	6 to 40
		81	6 to 60
		Range No.	GPM Water
		85*	.2 to 2
		86*	.6 to 5

\*For dual range models in English and Metric add "D" to end of Range No.

ACCESSORIES		
Model	Description	Price
RKA	Regulator kit for Series VFA	\$217.00
RK-RMB	Regulator kit for Series VFB	217.00



### Regulator Kits

Available as optional extras for both Rate-Master® Flowmeters and Visi-Float® Flowmeters models. This view shows Model VFA Visi-Float® flowmeter with integrally connected constant differential pressure regulator. Recommended for use where inlet air pressure fluctuates widely and constant flow is required.

The regulator maintains a constant pressure differential of approximately 3 ±.15 psig. Supply pressure must be at least 3 psig above the flowmeter discharge to operate. The standard regulator may be used with any Dwyer Series RM or VF flowmeter up to 200 scfh. For higher flow rates consult the factory.

MODEL CHART		
Model	Description	Price
VFA-X	Standard VFA	\$29.50
VFA-X-SS	VFA with stainless metal wetted parts	35.55
VFA-X-BV+	VFA with brass valve	38.75
VFA-X-SSV+	VFA with stainless steel valve	51.25
VFA-X-EC	VFA with end connections	36.25
VFA-X-EC-SS	VFA with end connections and stainless steel metal wetted parts	38.00
VFB-X	Standard VFB	49.50
VFB-X-SS	VFB with stainless metal wetted parts	53.75
VFB-X-BV+	VFB with brass valve	59.95
VFB-X-SSV+	VFB with stainless steel valve	69.95
VFB-X-EC	VFB with end connections	60.00
VFB-X-EC-SS	VFB with end connections and stainless steel metal wetted parts	64.50

**How To Order:** Series—Range No. ("X")—Valve—Option  
**Example:** VFA-9-BV  
 (Series VFA with 20-200 SCFH air range & brass valve)  
 +Valve is designed for flow adjustment only, not intended to be used as an open/shut-off valve.

OPTIONS		
To order add suffix:	Description	Price
-NIST	NIST traceable calibration certificate	+\$215.00 <sup>(N)</sup>
-PF	Red ABS plastic pointer flag	+3.00
-VIT	Fluoroelastomer O-rings	+8.40

<sup>(N)</sup> Items are net priced and are not subject to any discount.



### Special Multi-Column Visi-Float® Flowmeters

Perfect for OEM applications, Visi-Float® flowmeters can be custom made with up to 10 columns in a single block of acrylic plastic. Available with or without valves. Consult factory for more information.

### OEM Specials

Special flowmeter designs can be supplied to meet a wide range of requirements and specific applications. These include: on-off plunger and push-to-test valves, special gas or fluid calibration, special ranges, scales, name brand or other identification. Pointer flags can be furnished for instant visual reference. For specific information, please supply an outline of your requirements.