

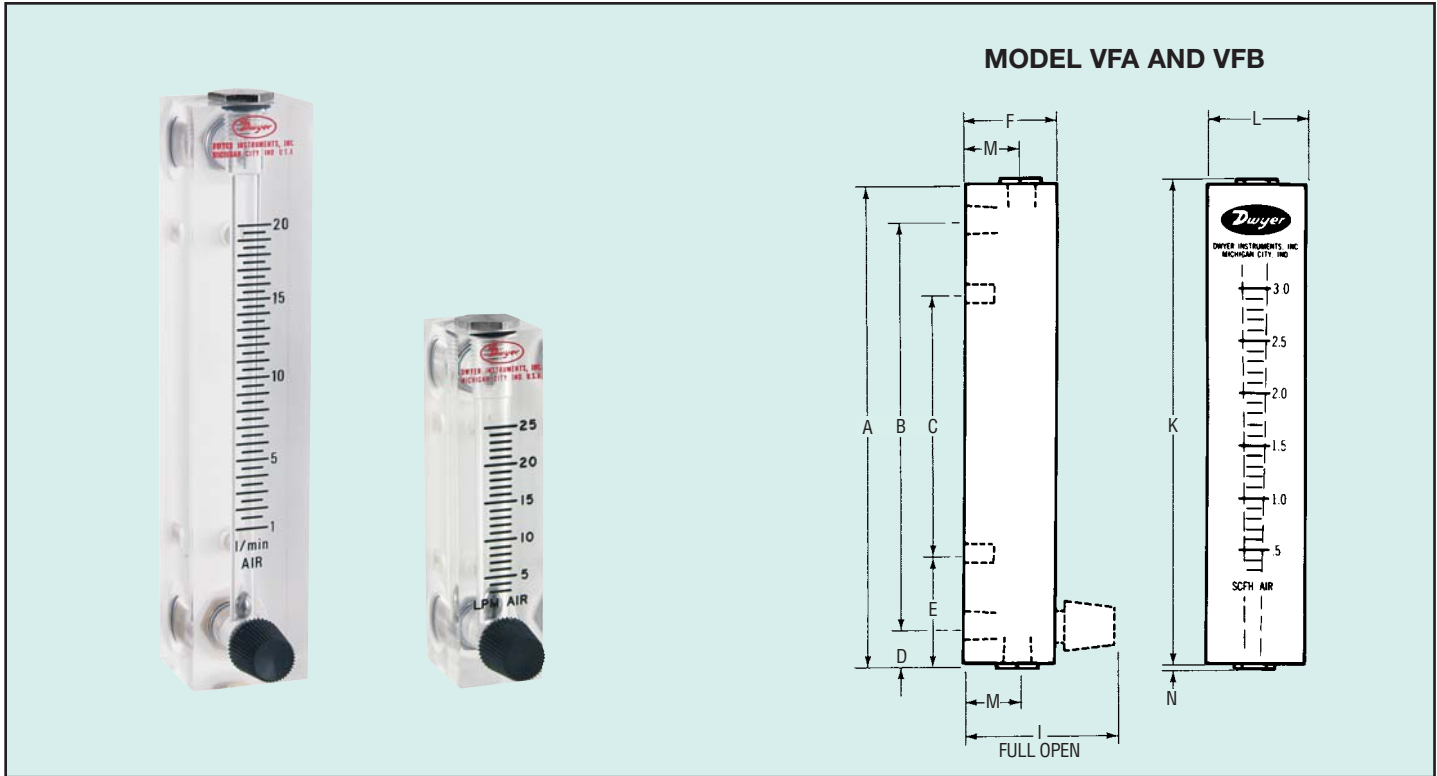


Series  
VFA  
&  
VFB

# Visi-Float® Flowmeters

Used to Indicate or Manually Control Air or Water Flow

Flow



**Dwyer 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 Dwyer 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 Dwyer 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.

DIMENSION-IN INCHES		
	Model VFA	Model VFB
A	4	6½
B	3 (½ female NPT)	5½ (½ female NPT)
C	1½ (10-32 Thread)	3½ (10-32 thread)
D	½	½
E	1¾	1½
F	1¼	1¼
I	2¼ (BV or SSV)	2¼ (BV or SSV)
K	4¾	6¾
L	1	1¾
M	¾ (EC)	¾ (EC)
N	¾ (EC)	¾ (EC)

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

### 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.



### SPECIFICATIONS

**Service:** Compatible gases & liquids.

**Wetted Materials:**

Body: Acrylic plastic.

O-ring: Buna-N (Viton® available).

Metal Parts: Brass standard, stainless steel optional.

Float: Stainless steel, 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 full scale; VFB= 3% of full scale.

**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: 4.0-4.8 oz (.11-.14 kg). VFB: 7.2-8.8 oz (.20-.25 kg).

**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.

#### How To Order

Series—Range No.—Valve—Option

**Example:** VFA-9-BV

Series VFA with 20-200 SCFH Air Range & Brass Valve

#### VFA SERIES

Model	Description
VFA-X	Standard VFA
VFA-X-SS	VFA with Stainless Metal Wetted Parts
VFA-X-BV	VFA with Brass Valve
VFA-X-SSV	VFA with Stainless Steel Valve
VFA-X-EC	VFA with End Connections
VFA-X-EC-SS	VFA with End Connections and Stainless Steel Metal Wetted Parts

**Options & Accessories**

- PF, Red ABS Plastic Pointer Flag .....
- VIT, Viton® O-rings .....
- RKA, Pressure Regulator .....

#### VFB SERIES

Model	Description
VFB-X	Standard VFB
VFB-X-SS	VFB with Stainless Metal Wetted Parts
VFB-X-BV	VFB with Brass Valve
VFB-X-SSV	VFB with Stainless Steel Valve
VFB-X-EC	VFB with End Connections
VFB-X-EC-SS	VFB with End Connections and Stainless Steel Metal Wetted Parts

**Options & Accessories**

- PF, Red ABS Plastic Pointer Flag .....
- VIT, Viton® O-rings .....
- RK-VFB, Pressure Regulator .....

#### POPULAR RANGES

Model VFA — 2" Scale			
Range No.	Range SCFH Air	Range No.	Range LPM Air
1	.1-1	21	.06-0.5
2	2-2	22	.15-1
3	.6-5	23	.6-5
4	1-10	24	1-10
5	2-20	25	3-25
6	4-30	26	6-50
7	5-50	27	10-100
8	10-100		
9	20-200		
	<b>CC Water per min.</b>		<b>Gal. Water per hour</b>
32	6-50	41	.6-5
33	10-100	42	2-10
34	20-200	43	3-20
		44	8-40

#### POPULAR RANGES

Model VFB — 4" Scale			
Range No.	Range SCFH Air	Range No.	LPM Air
50	.3-3	65	.2-4
91*	1-10	66	1-10
51*	2-20	67	1-20
52	4-40	68	3-30
53*	10-100	69	4-40
54*	15-150		<b>CC/Min. Water</b>
55*	20-200	82	2-30
	<b>SCFM Air</b>		<b>GPH Water</b>
90	.3-3	80*	.5-12
	<b>CC/Min. Air</b>	83*	1-20
60	100-1000	84	6-40
		81	6-60
			<b>GPM Water</b>
		85*	.2-2
		86*	.5-5

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

\* Ranges 85 and 86 consult factory. Not available with brass valve.