

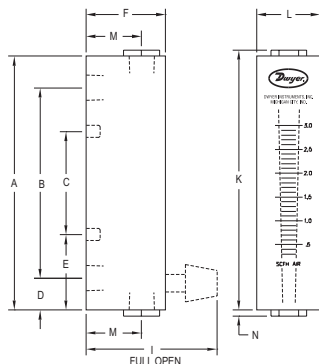
# **VISI-FLOAT® ACRYLIC FLOWMETERS** Hot-Stamped Scales, Multi-Angle Views of Flow



### 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]

The **Series VF Visi-Float® Acrylic 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® Flowmeters 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.

## 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

## MODEL CHART

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
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

**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
-NIST	NIST traceable calibration certificate
-PF	Red ABS plastic pointer flag
-VIT	Fluoroelastomer O-rings

## ACCESSORIES

Model	Description
RKA	Regulator kit for Series VFA
RK-VFB	Regulator kit for Series VFB

## 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.

## SPECIFICATIONS

**Service:** Compatible gases & liquids.

**Service:** Compatible gases & liquids.  
**Wetted Materials:** Body: Acrylic plastic; O-ring: Buna-N (fluoroelastomer available); Metal parts: Nickel plated 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).  
**Agency Approvals:** Meets the technical requirements of EU Directive 2011/65/EU (RoHS II).

### 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.	GPM 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	<b>Range No.</b>	<b>CC/Min. Water</b>
55*	20 to 200	82	2 to 30
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.



**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.

### USA: California Proposition 65

**⚠️WARNING: Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

# VISI-FLOAT® ACRYLIC FLOWMETERS

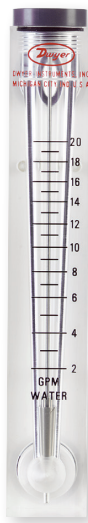
5" Scale, In-Line or Back Connection Options



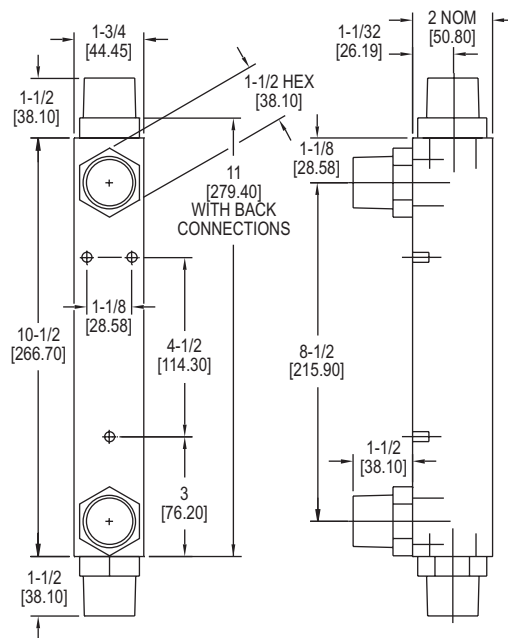
VFCII with 1" MNPT end connections



VFC with 1" FNPT end connections



VFC with 1" FNPT back connections



The **Series VFC Visi-Float® Acrylic Flowmeters** are direct reading, precision machined, clear acrylic body flowmeters suitable for both gas and liquid applications. This Series consists of two 5" (127 mm) scale flowmeters, the VFC and VFC II. The VFC features PVC 1" female NPT connections and the VFC II units are equipped with acetal thermoplastic 1" male NPT fittings.

## 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

## APPLICATIONS

- Medical equipment
- Laboratory equipment
- Air samplers
- Gas analyzers
- Pollution monitors
- Chemical injectors
- Cabinet purging
- Remediation
- Osmosis skids

RANGE CHART - 5" SCALE - POPULAR RANGES			
Range No.	SCFM Air	Range No.	GPM Water
121	4 to 25	141	.5 to 5
122	5 to 50	142	1 to 10
123	10 to 100	143	2 to 20
Range No.	LPM Air	Range No.	LPM Water
131	100 to 700	151	2 to 20
132	200 to 1400	152	4 to 40
133	300 to 2800	153	10 to 75

## SPECIFICATIONS

**Service:** Compatible gases & liquids.  
**Wetted Materials:** Body: Acrylic plastic; O-ring: Buna-N (fluoroelastomer available); Metal parts: SS; Float: SS.  
**Fittings:** VFC: PVC; VFCII: Acetal thermoplastic.  
**Temperature and Pressure Limits:** 100 psig (6.9 bar) @ 120°F (48°C).  
**Accuracy:** 2% of FS.  
**Process Connection:** VFC: 1" female NPT back connections. End connections optional; VFCII: 1" male NPT back connections. End connections optional.  
**Scale Length:** 5" typical length.  
**Mounting Orientation:** Mount in vertical position.  
**Weight:** 24 to 25 oz (.68 to .71 kg).  
**Agency Approvals:** Meets the technical requirements of EU Directive 2011/65/EU (RoHS II).

MODEL CHART		
Model	Thread Type	Process Connection
VFC-X	1" FNPT	Back
VFCII-X	1" MNPT	Back
VFC-X-EC	1" FNPT	In-line end
VFCII-X-EC	1" MNPT	In-line end
<b>How To Order:</b> Series-Range No.-Option <b>Example:</b> VFC-123-EC (Series VFC with 10-100 SCFM air range and 1" female NPT end connections)		

OPTIONS	
To order add suffix:	Description
-VIT	Fluoroelastomer O-rings
-FDA	316 SS float & guide rod (only available on VFCII with fluoroelastomer O-rings)
-NIST	NIST traceable calibration certificate
-BSPT	BSPT process connections