



Series
RM

Rate-Master[®] Flowmeters

Polycarbonate, Gas Flow from 0.05-1800 SCFH



Model RMC
10" scale, 15-3/8" high



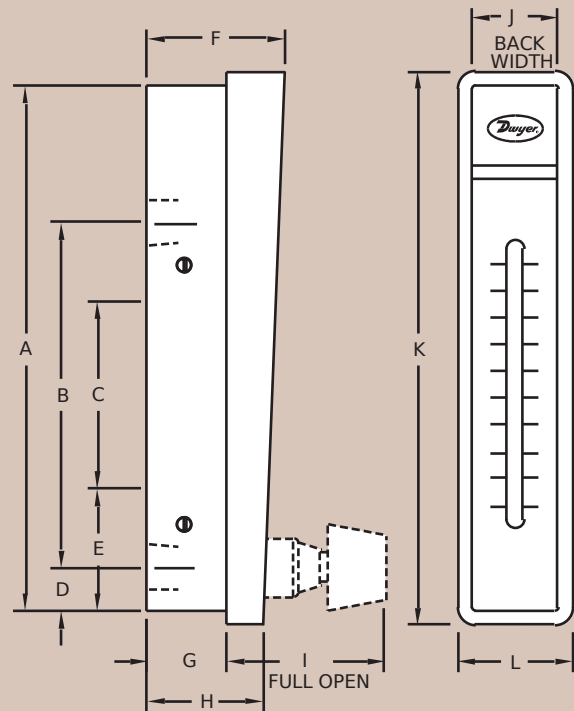
Model RMB-SSV
5" scale, 8-3/4" high



Model RMA-TMV
2" scale, 4-13/16" high



Scan here to watch product video



Flowmeter Dimensions

	Model RMA	Model RMB	Model RMC
A	4 -9/16 [115.90]	8-1/2 [215.90]	15 -1/8 [384.20]
B	3 [76.20]	6-7/16 [163.50]	12 -1/4 [311.20]
C	1/8 NPT CONN.	1/4 NPT CONN.	1/2 NPT CONN.
D	1-5/8 [41.28]	3-15/16 [100.00]	8-3/4 [222.30]
E	10-32 MTG. HOLES	1/4-20 MTG. HOLES	3/8-24 MTG. HOLES
F	3/8 [9.525]	5/8 [15.88]	1 [25.40]
G	1-1/16 [26.99]	1-7/8 [47.63]	2-3/4 [69.85]
H	1-3/16 [30.16]	1-3/4 [44.45]	2-1/2 [63.50]
I	11/16 [17.46]	1 [25.40]	1-7/16 [36.51]
J	61/64 [24.21]	1-7/16 [36.51]	1-31/32 [50.00]
K	1-3/8 [34.92]	1-13/16 [46.04]	2-1/2 [63.50]
L	3/4 [19.05]	1-1/4 [31.75]	2 [50.80]
M	4-13/16 [122.20]	8-3/4 [222.30]	15-3/8 [390.50]
N	1 [25.40]	1-1/2 [38.10]	2-1/4 [57.15]

The Rate-Master[®] flowmeter line of direct reading precision flowmeters incorporates many unique user features at moderate cost. These low cost flowmeters are ideal for general use.

Easy to read design — The direct reading scales eliminate troublesome conversions. The scales are brushed aluminum, coated with epoxy and the graduations are visible from both sides of the indicating tube. Special integral flow guides stabilize the float through the range to keep it from hunting or wandering in the bore. The float is highly visible against a white background.

Construction assures accuracy — All Rate-Master flowmeter bodies are injection molded of tough, clear, shatter-proof polycarbonate plastic around a precision stainless steel backbone into which pipe thread inserts are welded to assure accurate and repeatable readings. The single piece plastic body is designed to be instantly interchangeable.

Easy-to-Interchange bodies — Within a given Series Rate-Master flowmeter bodies can be instantly interchanged. Simply "unplug" the body from backbone and replace with another. O-rings provide a tight seal on inlet and outlet. Piping remains undisturbed. Interchangeability is useful where different scale ranges are sometimes required at the same location in the laboratory or plant.

Cleaning is easy — To release the plastic flowmeter body from the stainless steel backbone, just remove four screws. Pipe thread flow connections remain undisturbed. Remove the slide cover and the plug ball stop, clean the flow tube with soap and water, and reassemble. It's that simple.

Accuracy — Small Series RMA models are accurate within $\pm 4\%$ of full-scale reading; Series RMB and RMC are accurate within $\pm 3\%$; large Series RMC within $\pm 2\%$.

How To Order
Series-Range No. ("X")-Valve-Option
Example: RMA-2-SSV
Series RMA with .1-1 SCFH Air Range & Stainless Steel Valve

Model	Description
RMA-X	Standard RMA
RMA-X-BV	RMA with Brass Valve‡
RMA-X-SSV	RMA with Stainless Steel Valve‡
RMA-X-TMV	RMA with Top Mounted Valve*‡

Model	Description
RMB-X	Standard RMB
RMB-X-BV	RMB with Brass Valve‡
RMB-X-SSV	RMB with Stainless Steel Valve‡

Model	Description
RMC-X	Standard RMC
RMC-X-BV	RMC with Brass Valve‡
RMC-X-SSV	RMC with Stainless Steel Valve‡

*Top mounted metering valves provide same precision construction but for vacuum applications.
RMA models only.

Popular Ranges

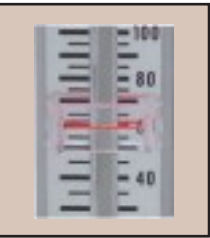
Model RMA-2" Scale		Model RMB-5" Scale		Model RMC-10" Scale	
Range	Range No.	Range	Range No.	Range	Range No.
SCFH Air		SCFH Air		SCFH Air	
.05-.5	1	.5-5	49+	5-50	101
.1-1	2	1-10	50	10-100	102
.2-2	3	3-20	51	20-200	103
.5-5	4	4-50	52	40-400	104
1-10	5	10-100	53	60-600	105
2-20	6	20-200	54	100-1000	106
5-50	7	40-400	55	120-1200	107
10-100	8	50-500	56	200-1800	108
15-150	9	60-600	57	SCFM Air	
20-200	10	Gal. Water per hour		1-10	121
CC Air/min.				2-20	122
5-50	151*	1-12	82	4-30	123
10-100	150*	1-20	83	Gal. Water per hour	
30-240	11	4-40	84		
50-500	12	10-100	85	2-20	134
100-1000	13	SCFH & LPM Air		8-90	135
200-2500	14	1.2-10/0.6-5	50D	Gal. Water per minute	
LPM Air		3-20/1.5-9.5	51D		
.5-5	26	4-50/2-23	52D	.1-1	141
1-10	21	10-100/5-50	53D	.2-2.2	142
2-25	22	20-200/5-95	54D	.4-4	143
5-50	23	GPH & LPM Water		.8-7	144
5-70	24	1-12/0.06-0.76		1.2-10	145
10-100	25	1-20/0.065-1.25	82D		
CC Water/min.		10-100/0.8-6.2	83D		
5-50	32		85D		
10-110	33				
20-300	34				
Gal. Water/hr					
1-11	42				
2-24	43				
4-34	44				
5-50	45				

*Accuracy ±8%
+Accuracy ±5%
‡Valve is designed for flow adjustment only, not intended to be used as an open/shut-off valve.

SPECIFICATIONS
Service: Compatible gases and liquids.
Wetted Materials: Body: Polycarbonate; O-ring: Neoprene and Buna-N; Metal parts: SS (except for optional brass valve); Float: SS, black glass, aluminum, K monel, tungsten carbide depending on range.
Temperature Limit: 130°F (54°C).
Pressure Limit: 100 psi (6.9 bar).
Accuracy: RMA: 4%; RMB: 3%; RMC: 2% of full-scale.
Process Connection: RMA: 1/8"; RMB: 1/4"; RMC: 1/2" female NPT.
Weight: RMA: 4 oz (113.4 g); RMB: 13 oz (368.5 g); RMC: 39 oz (1105.6 g).

CAUTION
Dwyer® Rate-Master® flowmeters are designed to provide satisfactory long term service when used with air, water, or other compatible media. Refer to factory for information on questionable gases or liquids. Caustic solutions, anti-freeze (ethylene glycol) and aromatic solvents should definitely not be used.

OPTIONS & ACCESSORIES



Model RMA-X-APF, Adjustable Pointer Flag for RMA Series
Model RMB-X-BPF, Adjustable Pointer Flag for RMB Series
Model RMC-X-CPF, Adjustable Pointer Flag for RMC Series



Model RKA, Regulator Kit for RMA Series
Model RK-RMB, Regulator Kit for RMB Series

OPTION
-NIST, NIST traceable calibration certificate

Specials – Special ranges, scales, mounting arrangements, etc., are available on special order, or in OEM quantities.

FLOW
Flowmeters, Variable Area