**Series RM**

**Rate-Master® Polycarbonate Flowmeters**

2", 5" or 10" Scale, Interchangeable Bodies

The Series RM Rate-Master® Polycarbonate Flowmeters are a line of general use, direct reading precision flowmeters suitable for both gas and liquid applications. This Series consists of 2" (51 mm), 5" (127 mm) and 10" (254 mm) scales that can be panel or surface mounted with optional precision metering valves. Within a given Series, the Rate-Master® flowmeter bodies can be instantly interchanged, allowing the piping to remain undisturbed, interchangeability of the ranges, and easy cleaning.

**Features/Benefits**
- Direct reading scales eliminate the need for troublesome conversions
- Stainless steel backbone absorbs piping torque reducing installation damage and cost
- Shatter-proof polycarbonate allows for long operation life
- Precision injection molding around a precision tapered pin enables high repeatability
- Increased reading accuracy with special integral flow guides that stabilize float movement
- Scale graduations on both side of the indicating tube allow for instantaneous flow reading saving time

**Applications**
- Medical equipment
- Air samplers
- Gas analyzers
- Pollution monitors
- Chemical injectors
- Cabinet purging

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions - Flowmeter</th>
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<tbody>
<tr>
<td>RMA</td>
<td>A: 4-9/16 [115.90]</td>
</tr>
<tr>
<td></td>
<td>B: 3 [76.20]</td>
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<tr>
<td></td>
<td>C: 1-8/8 [41.28]</td>
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<tr>
<td></td>
<td>D: 3/8 [9.525]</td>
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<td>E: 1-1/16 [26.99]</td>
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<td></td>
<td>F: 1-3/16 [30.16]</td>
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<td></td>
<td>G: 11/16 [17.46]</td>
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<td>H: 61/64 [24.21]</td>
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<td>J: 3/4 [19.05]</td>
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<td>K: 4-13/16 [122.20]</td>
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<td>L: 1 [25.40]</td>
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</tbody>
</table>

**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 FS.
- **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).
- **Agency Approvals:** Meets the technical requirements of EU Directive 2011/65/EU (RoHS II).

**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.
Flowmeters, Variable Area & In-Line

Adjustable pointer flags
Red lined pointer flags provide quick visual reference to a required flow level. Of clear plastic, they snap into place inside bezel and slide to desired level.

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.

USA: California Proposition 65
\*WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov