Models F222 & F451 Liquid/Particle Filters

Filtration Efficiency: 93% (removal of 0.01 micron particles).
Maximum Pressure: 150 psig (10 bar).
Maximum Temperature: 130°F (54°C).
Max. Flow at 100 psig: 22 scfm (F222); 45 scfm (F451).
Inlet & Outlet Ports: 1/4˝ female NPT.
Mounting: In-line only (F222); 1/4-20 mounting holes (F451).
Materials of Construction: Anodized aluminum head, polycarbonate bowl, cadmium plated steel tie rod, nylon internals, Buna-N seal.
Weight: 0.5 lb (0.2 kg) (F222); 1.1 lb (0.5 kg) (F451).

Model F222, Liquid/Particle Filter
Model 1201-2, Replacement Filters for F222 (pk of 3)
Model F451, Liquid/Particle Filter
Model 1201-3, Replacement Filters for F451 (pk of 3)

Models F222 & F451

Flowmeter Accessories and Options

Model F195 Disposable In-Line Filter

SPECIFICATIONS
Filtration Efficiency: 99.99% (removal of 0.1 micron particles).
Housing Construction: Nylon.
Filter Tube Dimensions: 0.59 ID x 1.39 length.
Maximum Temperature: 220°F @ 0 psig (101°C @ 0 bar), 120°F @ 125 psig (49°C @ 9 bar).
Maximum Pressure: 125 psig (8.6 bar).
Maximum Differential Pressure: 60 psi (4 bar) (in-to-out flow direction), 20 psi (1.4 bar) (out-to-in flow direction).
Internal Volume: 11.5 cc (11.5 ml).
Connections: Barbed for 1/4˝ I.D. tubing.

Line Pressure vs. Flow

<table>
<thead>
<tr>
<th>Line Pressure (psig)</th>
<th>1.5</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>60</th>
<th>80</th>
<th>100</th>
<th>125</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Flow (scfm)</td>
<td>0.6</td>
<td>0.8</td>
<td>1.3</td>
<td>1.6</td>
<td>2.0</td>
<td>2.7</td>
<td>3.5</td>
<td>4.2</td>
<td>5.7</td>
</tr>
</tbody>
</table>

* 1.5 psi pressure drop.

Regulator Kits

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

Compressed air filters protect equipment and instrumentation from harmful contaminants such as dirt, water and oil. Liquids are continuously coalesced and released through the manual drain valves. Replaceable filter element removes particles and droplets as small as 0.01 micron with 93% efficiency. Units have 1/4˝ female NPT inlet and outlet and manual drain valve.

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