Airgas® FM244 Series

Description: This Airgas® FM244 series of high-purity, two-stage flowmeter regulators are recommended for non-corrosive analytical and process applications. This regulator is part of our analytical series, machined from brass bar stock which affords minimum internal volume and eliminates large cavities and pockets associated with forged-body regulators. The flowmeter has a 65mm direct reading scale based on air etched into the tube. Accuracy is ±5% full scale with ±.25% repeatability. You must specify flow rate and gas service at time of ordering.

Design Features

- **Filtered Seat** for added gas stream purity and extended service life.
- **Convolted Stainless Steel Diaphragms** eliminate outgassing associated with elastomeric diaphragms.
- **Bar Stock Body** affords low internal volume.
- **Encapsulated Filter Seat Assy** protect valve seat, extend service life.
- **Nickel-Plated Brass Body** provides enhanced overall aesthetics, will not tarnish.
- **Superior Leak Integrity** provides superior leak integrity without contamination from non-metallic liner or seal.
- **Direct Reading Scale** allows the operator to read the flow directly on the tube.
- **Safety Relief Valve** protects flowmeter and any equipment down stream.

Specifications for Regulator

- **Maximum Rated Inlet Pressure**: 3,500 psig
- **Outlet Pressure Ranges**: 0-25, 0-50, 0-100 psig
- **Flow Ranges**: 0.28, 2.2, 6.0, 20 & 150 scfh of air
- **Ambient Operating Temperature**: -40º F to +165º F
- **Designed Leak Rate**: Bubble-Tight (helium)
- **Weight**: 5 lbs.
- **Ports (4)**: 
  - 1/4" FNPT regulator;
  - 1/8" FNPT flowmeter
- **Inlet**: CGA Connection
- **Outlet**: 1/4" MNPT Instrument Valve
- **Decay Inlet Characteristic**: 0.26/100 psi

Flowmeter Materials

- **Frame**: Brass
- **Available Float Material**: Glass, Stainless Steel, Carboloy

Regulator Materials

- **Body**: Nickel-Plated Brass
- **Bonnet**: Nickel-Plated Brass
- **Seat**: PTFE
- **Diaphragm**: 316 Stainless Steel
- **Gauges**: 2½" Nickel-Plated Brass
- **Filter**: 316 Stainless Steel and Bronze
- **Valve Stem**: 316 Stainless Steel
- **Valve Spring**: 316 Stainless Steel
- **Outlet Valve**: Nickel-Plated Brass
- **Trim**: Nickel-Plated Brass

Ordering Information

<table>
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<tr>
<th>Product Number</th>
<th>Material</th>
<th>Max Inlet Pressure (psig)</th>
<th>Max Outlet Pressure (psig)</th>
<th>Capacity (scfh @ Max Del. Pressure)</th>
<th>Relief Valve Setting (psig)</th>
<th>Inlet Gauge Range (psig)</th>
<th>Delivery Gauge Range (psig)</th>
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<tbody>
<tr>
<td>Y12-FM244A(CGA)</td>
<td>Brass</td>
<td>3,500</td>
<td>25</td>
<td>&quot;</td>
<td>85</td>
<td>0-4,000</td>
<td>30&quot; Hg-0-30</td>
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<td>Y12-FM244B(CGA)</td>
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<td>50</td>
<td>&quot;</td>
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<td>0-60</td>
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<tr>
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<td>100</td>
<td>&quot;</td>
<td>150</td>
<td>0-4,000</td>
<td>0-200</td>
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</tbody>
</table>

* Determined by flowmeter—must be specified at time of ordering. See 65 mm Flowmeter section to specify the required flow rate.

Available Options

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y15-QMB1</td>
<td>Quick Mounting Option for 1 Cylinder</td>
</tr>
<tr>
<td>Y15-QMB2</td>
<td>Quick Mounting Option for 2 Cylinders</td>
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