Model 7300 Series and Model 7400 Series
Proportioners and Mixers

Description
Matheson’s Model 7300 and 7400 Series Flowmeters are 150mm multi-tube flowmeter manifolds used for proportioning or mixing multiple gas streams. They are available in three basic configurations.

- Two gases in – One stream out (proportioner)
- Three gases in – One stream out (mixer)
- Four gases in – One stream out (mixer)

Tubes are available in several 150mm reference scale flow ranges. Be sure to request calibration data for the gases you will be metering. All tubes are supplied with a single glass float.

Standard with the 7300 and 7400 series is the uniquely designed Tube Cube®. Also, FM-1050 150mm flow tubes are used.

Tubes are backpressure compensated by mounting the control valve (utility or high accuracy) on the outlet side of the tube. A highly sensitive pressure regulator is recommended for each of the inlet gas streams to avoid fluctuations in gas flow which could cause inaccuracies in mixing concentration.

Specifications
Maximum Pressure: 200 psig
Temperature Ranges: 20° to 250°F (-30° to 120°C)

To ensure that you receive the correct model for your application, please specify:

- Pressure (20 or 50 psig)
- Total flow rate
- Percent of each gas
- Special calibration

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Model 7300 Series and Model 7400 Series
Proportioners and Mixers (continued)

Flow Tube Capacities for 7300 and 7400 Series Proportioners and Mixers, 150mm Reference Scale

<table>
<thead>
<tr>
<th>Tube No.</th>
<th>Float Material</th>
<th>Air (SCCM)</th>
<th>Utility Valve Size</th>
<th>HA Valve Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>E910*</td>
<td>Glass</td>
<td>0.13-104</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>E101</td>
<td>Glass</td>
<td>6-60</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>E201</td>
<td>Glass</td>
<td>10-100</td>
<td>7</td>
<td>1</td>
</tr>
<tr>
<td>E301</td>
<td>Glass</td>
<td>38-380</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>E401</td>
<td>Glass</td>
<td>88-880</td>
<td>7</td>
<td>3</td>
</tr>
</tbody>
</table>

*Two Tube Only for Proportioners

Valve Types
- \( F \) = Three and four tube Model FM-1050
- \( G \) = Two tube Model FM-1050 Glass Tube Proportioners with 150mm tube

Model Number Generator For 7300 And 7400 Series Proportioners & Mixers

**MODEL SERIES**
- \( F \) = Three and four tube Model FM-1050
- \( G \) = Two tube Model FM-1050 Glass Tube Proportioners with 150mm tube

**NUMBER OF METERING TUBES**
- 2 = Two Tube Unit
- 3 = Three Tube Unit
- 4 = Four Tube Unit

**END BLOCKS/SEAL MATERIAL**
- 1 = Aluminum with Buna-N Seals
- 4 = 316 Stainless Steel with Viton Seals
- 6 = 316 Stainless Steel with Teflon Seals
- A = Aluminum with Viton Seals
- D = 316 Stainless Steel with Buna-N Seals
- E = 316 Stainless Steel with EPR Seals
- N = 316 Stainless Steel with Kalrez Seals

**ACCESSORIES**
- 0 = None
- 5 = Base Plate Assembly
- MMSP-003-XX Clean for Oxygen Service
- +/- 1% Accuracy, Full Scale, With Certification, Reference Scales
- +/- 5% Accuracy, Full Scale with Certification, Gases, Direct Read

**CONNECTION ORIENTATION**
- 1 = Back In/Back Out

**FLOW TUBE (CAPACITIES)**
- EXXX = See Capacity Table For 7300 and 7400 Series Flowmeters

**ADDITIONAL OPTIONS**
- Silk Screen Charge

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