**FLOW**

**Dwyer**

**SERIES DR**

**DIRECT READING GLASS FLOWMETERS**

65 mm and 150 mm, Interchangeable Flowtubes, Direct Reading Scales

The SERIES DR Direct Read Variable Area Glass Flowmeters are ideal for the direct flow measurement of air, water, and other commonly used gases. These flowmeters are designed with direct read scales with no need for correlation charts. They feature borosilicate glass tubes in 150 mm or 65 mm scales with aluminum and SS metering value options.

**FEATURES/BENEFITS**

- Permanently fused ceramic scale with vertical locator line, reflective lens background and 1.5 X magnification lens reduces parallax and eye fatigue saving time.
- Increased protection with included safety blow-out back panel for added safety.
- Long operating life with thick polycarbonate front shield that protects tube from breakage and serves as a magnifying lens to enhance reading resolution.
- Optional needle valve for flow rate control eliminating the need for a separate valve.

**APPLICATIONS**

- Gas or liquid metering
- Paper manufacturing
- Chemical processing
- Semiconductor systems
- Water and air pollution analysis systems
- Laboratory systems

**SPECIFICATIONS**

- **Service:** Compatible gases or liquids.
- **Wetting Materials:** Flowtube: Borosilicate glass; Float: 316 SS (black glass as indicated); Float stops: PTFE; End fittings: Anodized aluminum or SS; O-rings: Buna-N on aluminum models and fluoroelastomer on SS models.
- **Temperature Limit:** 250°F (121°C).
- **Pressure Limit:** 250 psig (17 bar).
- **Accuracy:** ±5% FS @ 70°F (21.1°C) and 14.7 psia (1 atm bar).
- **Repeatability:** ±0.25% of scale reading.
- **Torndown Ratio:** 10:1.

**MODEL CHART - 65 MM SCALE**

<table>
<thead>
<tr>
<th>Model Without Valve</th>
<th>Model With Valve</th>
<th>Max. Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>SS</td>
<td>Air SCFH (SCCM)</td>
</tr>
<tr>
<td>DR10010*</td>
<td>DR12010*</td>
<td>0.24 (130)</td>
</tr>
<tr>
<td>DR10022</td>
<td>DR12022</td>
<td>0.65 (301)</td>
</tr>
<tr>
<td>DR10030*</td>
<td>DR12030*</td>
<td>1.0 (501)</td>
</tr>
<tr>
<td>DR10042</td>
<td>DR12042</td>
<td>2.2 (1001)</td>
</tr>
</tbody>
</table>

**Note:** Add suffix “M” for metric scale. *Denotes glass float.

**MODEL CHART - 150 MM SCALE**

<table>
<thead>
<tr>
<th>Model Without Valve</th>
<th>Model With Valve</th>
<th>Max. Flow Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>SS</td>
<td>Air SCFH (SCCM)</td>
</tr>
<tr>
<td>DR200132</td>
<td>DR220132</td>
<td>0.24 (130)</td>
</tr>
<tr>
<td>DR20082</td>
<td>DR22082</td>
<td>0.65 (301)</td>
</tr>
<tr>
<td>DR200182</td>
<td>DR220182</td>
<td>1.0 (501)</td>
</tr>
<tr>
<td>DR200732</td>
<td>DR220732</td>
<td>2.2 (1001)</td>
</tr>
</tbody>
</table>

**Note:** Add suffix “M” for metric scale. *Denotes glass float.

**Use order code:** Description

**NISTCAL-FLT** NIST traceable calibration certificate

*Note: Panel Mounting: Drill two 5/8” dia. holes at 4.5” apart for 65mm models and 8.812” apart for 150 mm models (center-to-center).