Kytola Model 2851 Constant Flow Regulator is a sturdy, industrial constant flow regulator designed to provide constant flow of liquids or gases regardless of pressure variations.

Model 2851 is intended for low liquid flows in applications where supply or backpressure varies and for gas flows in applications where backpressure varies.

The regulator is a membrane type differential pressure controller, and it is usually supplied with Model L variable area flow meter.

**FEATURES**
- Two-piece stainless steel construction
- Vertical installation
- Competitively priced
- Model L flow meter for flow rate adjusting and monitoring

**TYPICAL APPLICATIONS**
- Control of seal and flush waters
- Water or air purging
- Level measurement in tanks

**OPTIONS**
- Hand knob in valve
- Viton® or EPDM seals

Model 2851 equipped with model L flow meter

- For liquid and gas
- Reliable operation
- Easy maintenance
- Max. flow
  - H₂O: 0.8 USGPM (3.0 L/min)
  - Air: 240 SCFH at 87 psig (100 NL/min at 6 barg)

ISO 9001  ISO 14001
**TECHNICAL DATA**

- **Max. flow**:
  - H₂O: 45 USGPH (3.0 L/min); Air: 240 SCFH at 87 psig (100 NL/min at 6 barg)
  
- **Nominal flow**:
  - H₂O: 36 USGPH (2.3 L/min); Air: 240 SCFH at 87 psig (100 NL/min at 6 barg)
  
- **Max. diff. pressure**: 290 psi (20 bar)
  
- **Max. static pressure**: 290 psi (20 bar), *435 psi / 85°F (30 bar / 30°C)
  
- **Pressure drop at nominal flow**: 29 psi (2 bar)
  
- **Max. temperature**: 165°F (75°C)

<table>
<thead>
<tr>
<th>Body</th>
<th>AISI 316</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>AISI 316</td>
</tr>
<tr>
<td>Membrane</td>
<td>EPDM</td>
</tr>
<tr>
<td>Membrane plate</td>
<td>AISI 316</td>
</tr>
<tr>
<td>Seals</td>
<td>Nitrile (*Viton®, EPDM)</td>
</tr>
<tr>
<td>Mesh</td>
<td>PE</td>
</tr>
<tr>
<td>Connections</td>
<td>NPT 1/4” or G 1/4”</td>
</tr>
<tr>
<td>Installation position</td>
<td>Vertical</td>
</tr>
<tr>
<td>Weight</td>
<td>2 lbs (0.85 kg)</td>
</tr>
</tbody>
</table>

**Flow Tube**

- Acrylic - SS316, max 290 psi (20 bar) / 165°F (75°C)
- Grilamid-TR55 - SS316, max 290 psi (20 bar) / 176°F (80°C)
- Trogamid-T - SS316, max 290 psi (20 bar) / 158°F (70°C)

**Scale**

- H₂O L/min (70°F, 20°C) A
- Dual scale USGPH H₂O and SCFH air L
- Dual scale L/min H₂O and NL/min air M
- H₂O USGPH (70°F, 20°C) N
- Relative scale 1–10 D
- Factory assigned model number for air scale XX

**Special Feature**

- Hand knob in valve H
- Viton® seals V
- EPDM seals Y

*Example air ranges at 70°F / 14.7 psia (20°C / 1.013 bar abs)
The gas scale always has to be calibrated according to the actual medium, inlet pressure and temperature. Note! \( \Delta p \) over the regulator must be \( \geq 29 \) psi (2 bar).

**) Flow meter scale, regulator max. flow is 45 USGPH (3.0 L/min)

**Connections**

- G 1/4”
- NPT 1/4”

**Flow Range H₂O USGPH L/min**

<table>
<thead>
<tr>
<th>Flow Range H₂O USGPH</th>
<th>Flow Range air* SCFH* NL/min*</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2 – 1.3</td>
<td>15 – 80 mL/min</td>
</tr>
<tr>
<td>0.2 – 2</td>
<td>0.01 – 0.13</td>
</tr>
<tr>
<td>0.2 – 3.6</td>
<td>0.01 – 0.2</td>
</tr>
<tr>
<td>0.5 – 5.5</td>
<td>0.025 – 0.325</td>
</tr>
<tr>
<td>1 – 8.5</td>
<td>0.05 – 0.5</td>
</tr>
<tr>
<td>2 – 12</td>
<td>0.1 – 0.75</td>
</tr>
<tr>
<td>2 – 17</td>
<td>0.1 – 1</td>
</tr>
<tr>
<td>4 – 26</td>
<td>0.2 – 1.6</td>
</tr>
<tr>
<td>2.5 – 40</td>
<td>0.2 – 2.6</td>
</tr>
<tr>
<td>7.5 – 55**</td>
<td>0.5 – 3.5**</td>
</tr>
</tbody>
</table>

*Special construction on request

**NOTE**: Measurements in the drawings in this datasheet are in inches (and millimeters) if not stated otherwise.