Emergency Exposure Limits

All models (Inlet Side Only) ................................. 65 psi (450 kPa)

Maximum Individual Load

Largest single appliance served by the regulator.
325-3 (B) ........................................................................ 100,000 Btu/hr
325-5 (B) ........................................................................ 325,000 Btu/hr
325-7A (B) ........................................................... 1,250,000 Btu/hr

Capacity

Total load of multiple appliances combined.
325-3 (B) .................................................. 3/8", 1/2" ................................................150,000 Btu/hr
325-5 (B) .................................................. 1/2", 3/4", 1" ........................................ 325,000 Btu/hr
325-7A (B) .................................................. 1 1/4", 1 1/2") .................................... 1,250,000 Btu/hr

NOTE: Capacity table is used to determine the maximum multiple appliance load. The largest single appliance served by the regulator should not exceed the maximum individual load specified above.

Ambient Temperature Limits

All Models ........................................ -40°F to 205°F (-40°C to 96°C)

Vent Pipe Connections

325-3 (B) .................................................. 1/8" NPT
325-5 (B) .................................................. 3/8" NPT
325-7A (B) .................................................. 1/2" NPT

Mounting Position

The 325 Series is suitable for multi-poise mounting, but when used with a vent limiting device, the regulator must be mounted in a horizontal upright position (see Figure 2). Install the regulator properly with gas flowing as indicated by the arrow on the casting. (See Maxitrol Safety Warning Instructions, GPR_MI_EN.ES)
PRESSURE DROP - 0.64 sp. gr. gas expressed in CFH (m³/h) (for system pressure drop calculations)

<table>
<thead>
<tr>
<th>Model</th>
<th>Pressure Drop</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7.0&quot; w.c. (1.7 kPa)</td>
</tr>
<tr>
<td>325-3(B)</td>
<td>145 (4.0)</td>
</tr>
<tr>
<td>325-5(B)</td>
<td>400 (11.3)</td>
</tr>
<tr>
<td>325-7A(B)</td>
<td>815 (23.1)</td>
</tr>
</tbody>
</table>

**NOTE:** All Maxitrol gas appliance regulators must be installed and operated in accordance with Maxitrol’s Safety Warning Instructions.

**Vent Limiting Devices**

- 325-3(B) ...................................................... 12A09
- 325-5(B) ...................................................... 12A39
- 325-7A(B) ...................................................... 12A49

**Vent Protectors**

- 325-3(B) ...................................................... 13A15
- 325-5(B) ...................................................... 13A15-5
- 325-7A(B) ...................................................... 13A25

**Vent Accessories**

Maxitrol vent limiting devices eliminate the need to run vent piping to the outside. Vent limiting devices are designed for use indoors and in spaces where limiting the amount of gas escapement due to diaphragm failure is critical. **Vent limiting devices should not be used outdoors if they are exposed to the environment.** Vent protectors are available for all outdoor applications to ensure proper vent protection.
### CAPACITIES - Based on 1" w.c. pressure drop from set point**.

Capacities expressed in CFH (m³/h) @ 0.64 sp gr gas

<table>
<thead>
<tr>
<th>Model Number (pipe size)</th>
<th>Outlet Pressure Set Point</th>
<th>CSA Maximum</th>
<th>Operating Inlet Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.5 psi (3.4 kPa)</td>
</tr>
<tr>
<td>325-3(B) (3/8&quot;, 1/2&quot;)</td>
<td></td>
<td></td>
<td>150 (10.0 kPa)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>150 (1.7 kPa)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>150 (2.5 kPa)</td>
</tr>
<tr>
<td>325-5(B) (1/2&quot;, 3/4&quot;, 1&quot;)</td>
<td></td>
<td></td>
<td>325 (9.2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>325 (1.7 kPa)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>325 (2.5 kPa)</td>
</tr>
<tr>
<td>325-7A(B) (1 1/4&quot;, 1 1/2&quot;)</td>
<td></td>
<td></td>
<td>---</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>---</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>---</td>
</tr>
</tbody>
</table>

** Set points (in CFH): 325-3(B) = 50, 325-5(B) = 150, 325-7A(B) = 500.

NOTE: Maximum individual load for 325-3(B) is 100 CFH (2.8 m³/h), 325-5(B) is 325 CFH (9.2 m³/h), 325-7A(B) is 1250 CFH (35.4 m³/h)

Approval based on use as an appliance regulator.

### DIMENSIONS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Pipe Size*</th>
<th>Swing Radius</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A (76 mm)</td>
<td>B (89 mm)</td>
</tr>
<tr>
<td>325-3(B)</td>
<td>3/8&quot;, 1/2&quot;</td>
<td>3&quot;</td>
<td>3.5&quot;</td>
</tr>
<tr>
<td>325-5(B)</td>
<td>1/2&quot;, 3/4&quot;, 1&quot;</td>
<td>4.9&quot; (124 mm)</td>
<td>5.3&quot; (133 mm)</td>
</tr>
<tr>
<td>325-7A(B)</td>
<td>1 1/4&quot;, 1 1/2&quot;</td>
<td>6.1&quot; (156 mm)</td>
<td>7.3&quot; (184 mm)</td>
</tr>
</tbody>
</table>

* Standard models NPT threads; 'M' models available with BSP threads.

NOTE: Dimensions are to be used only as an aid in designing clearance for the regulator. Actual production dimensions may vary somewhat from those shown.
When 325 Series regulators are used on 2 psi piping systems, often times the 2 psi systems are sized with a 1 psi pressure drop through the copper or stainless steel tubing. This means there will be 2 psi at the inlet of the regulator under no flow conditions, and 1 psi at the regulator inlet under maximum flow conditions.

**SIZING INSTRUCTIONS**

TO SELECT AN APPLIANCE REGULATOR OF SUFFICIENT FLOW - ONE MUST KNOW:

1. Available inlet pressure (maximum static/minimum operating).
2. Desired outlet pressure.
3. Required maximum flow rate.
4. Pipe size.

**Example:** To select a 325 series regulator of sufficient capacity to handle flow...

**KNOWN:**

A. Desired flow rate 145 CFH.
B. Pipe size 1/2”.
C. Operating inlet pressure 2 psi.
D. Outlet pressure 7” w.c.
E. Lockup required.

**SOLUTION:**

A. Check pressure drop chart, page 2.
B. The 325-3’s pressure drop at a flow rate of 145 CFH is 7” w.c. This is well below the available differential of 1.75 psi.
C. The 325-3 (1/2”) used with a 5” to 9” spring, set at 7”, is the correct regulator to use for this application.
Maxitrol has upgraded the 325-5 series for 2 psi systems. The new models offer higher capacities while using the same regulator body size as the original 325-5A series. This allows the regulators to be used on a wider range of applications without needing extra space for installation.

The new 325-5 appliance regulators have a capacity of 325,000 Btu/h and replace the 325-5A. The new 325-5L line pressure regulators feature a capacity of up to 600,000 Btu/h and replace the 325-5AL. The new 325-5 and 325-5L will be available September 1, 2013.

The 325-5L series with OPDs, for 5 psi systems, also have a change in model number, but the capacities will remain the same. The 325-5AL48 is now the 325-5L48, and the 325-5AL600 is being replaced by the 325-5L600. These model number changes go into effect September 1st.

**Specifications for 325-5L**

**Gases**
Suitable for natural, manufactured, mixed gases, liquefied petroleum gases and LP gas-air mixtures.

**Approvals**
ANSI Z21.80/CSA 6.22 Line Pressure Regulators

**Maximum Inlet Pressure**
CSA Certified................................................................. 2 psi (13.8 kPa)
Maximum Tested................................................................. 10 psi (69 kPa)

**Minimum Inlet Pressure**
CSA Certified......................................................................... 1 psi (6.9 kPa)

**Emergency Exposure Limits**
Inlet side only................................................................. 65 psi (450 kPa)

**Outlet Pressure Range**
Certified Spring................................................................. 7" to 11" w.c. (1.7 to 2.7 kPa)

**Maximum Individual Load**
Largest single appliance served by the regulator ................. 425,000 Btu/hr

**Capacity**
Total load of multiple appliances combined ......................... 500,000 Btu/hr

**Vent Pipe Connection**
................................. 3/8" NPT

**Ambient Temperature Limits**
................................. -40°F to 205°F (-40°C to 96°C)

**IMBLUE TECHNOLOGY™** is available on all 325 appliance and line pressure regulators. "B" in the model number designates Imblue Technology™.

**COMING SOON!**

**New 325 Series Regulators**

- **325-9, 325-9L**
  - 2 psi systems certification
- **325-9L210E**
  - 5 psi systems certification

For more information on Maxitrol products contact a Maxitrol Regional Salesman.

**Tom Ganfield** (East of the Mississippi) 248-894-0481,
or **Rob Peters** (West of the Mississippi) 248-761-1708

If you would prefer to receive Maxitrol’s newsletter as an email, please send your email address to kcibulskis@maxitrol.com with the word “Subscribe” in the subject line. This is for Maxitrol’s use only, and will not be used for any other purpose. You can request to remove yourself from the email list at any time.