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DESCRIPTION

325 Series line pressure regulators are for use on residential, commercial, and industrial applications.

The 325 Series features a high leverage valve linkage assembly to deliver positive dead-end lock-up. The regulators are capable of precise regulating control from full flow down to pilot flow.

B Models: Imblue Technology™ increases corrosion resistance and provides extra protection against the elements for regulators used in outdoor applications.

NOTE: (B) in model number designates Imblue Technology™.

SPECIFICATIONS

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

Approvals
CSA: ANSI Z21.80/CAN 6.22

Maximum Inlet Pressure

<table>
<thead>
<tr>
<th>Model</th>
<th>CSA Certified</th>
</tr>
</thead>
<tbody>
<tr>
<td>325-3(B)L</td>
<td>2 psi (13.8 kPa)</td>
</tr>
<tr>
<td>325-5A(B)L</td>
<td>2 psi (13.8 kPa)</td>
</tr>
<tr>
<td>325-7A(B)L</td>
<td>2 psi (13.8 kPa)</td>
</tr>
</tbody>
</table>

Minimum Inlet Pressure
CSA Certified .................................................. 1 psi (7 kPa)

Outlet Pressure Range
Certified Spring .................................................. 7 - 11" w.c.

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)L ............................................. 140,000 Btu/hr
325-5A(B)L ................................................ 300,000 Btu/hr
325-7A(B)L ................................................ 1,250,000 Btu/hr

Capacity
Total load of multiple appliances combined.

325-3(B)L (3/8", 1/2") ........................................... 250,000 Btu/hr
325-5A(B)L (1/2") ................................................ 425,000 Btu/hr
325-5A(B)L (3/4", 1") ........................................... 550,000 Btu/hr
325-7A(B)L (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)L .................................................. 1/8" NPT
325-5A(B)L .................................................. 3/8" NPT
325-7A(B)L .................................................. 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_CSA_2PSI_MI_EN.FR).
Vent Limiting Devices for Indoor Applications

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

NOTICE

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.

Vent Protectors for Outdoor Applications

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

PRESSURE DROP: 0.64 sp gr gas expressed in CFH (m³/h) (for system pressure drop calculations)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Pressure Drop</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7.0” w.c. (1.7 kPa)</td>
</tr>
<tr>
<td>325-3(B)L</td>
<td>145 (4.0)</td>
</tr>
<tr>
<td>325-5A(B)L</td>
<td>339 (9.6)</td>
</tr>
<tr>
<td>325-7A(B)L</td>
<td>815 (23.1)</td>
</tr>
</tbody>
</table>

NOTE: All Maxitrol line pressure regulators must be installed and operated in accordance with Maxitrol’s Safety Warning Instructions.
### CAPACITIES: 0.64 sp gr gas expressed in CFH (m³/h)

<table>
<thead>
<tr>
<th>Model Number (pipe size)</th>
<th>Outlet Pressure Set Point</th>
<th>Operating Inlet Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1 psi (7 kPa)</td>
</tr>
<tr>
<td><strong>325-3(B)L</strong> (3/8”, 1/2”)</td>
<td>7.0” w.c. (1.7 kPa)</td>
<td>250 (7.1)</td>
</tr>
<tr>
<td></td>
<td>10.0” w.c. (2.5 kPa)</td>
<td>230 (6.5)</td>
</tr>
<tr>
<td><strong>325-5A(B)L</strong> (1/2”)</td>
<td>7.0” w.c. (1.7 kPa)</td>
<td>425 (12.0)</td>
</tr>
<tr>
<td></td>
<td>10.0” w.c. (2.5 kPa)</td>
<td>425 (12.0)</td>
</tr>
<tr>
<td><strong>325-5A(B)L</strong> (3/4”, 1”)</td>
<td>7.0” w.c. (1.7 kPa)</td>
<td>550 (15.6)</td>
</tr>
<tr>
<td></td>
<td>10.0” w.c. (2.5 kPa)</td>
<td>535 (15.1)</td>
</tr>
<tr>
<td><strong>325-7A(B)L</strong> (1 1/4”, 1 1/2”)</td>
<td>7.0” w.c. (1.7 kPa)</td>
<td>1250 (35.4)</td>
</tr>
<tr>
<td></td>
<td>10.0” w.c. (2.5 kPa)</td>
<td>1125 (31.9)</td>
</tr>
</tbody>
</table>

### DIMENSIONS: Expressed in inches (mm)

<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</td>
<td>B</td>
</tr>
<tr>
<td><strong>325-3(B)L</strong></td>
<td>3/8”, 1/2”</td>
<td>3 (76)</td>
<td>3 1/2 (89)</td>
</tr>
<tr>
<td><strong>325-5A(B)L</strong></td>
<td>1/2”, 3/4”, 1”</td>
<td>4 7/8 (124)</td>
<td>5 1/4 (133)</td>
</tr>
<tr>
<td><strong>325-7A(B)L</strong></td>
<td>1 1/4”, 1 1/2”</td>
<td>6 1/8 (156)</td>
<td>7 1/4 (184)</td>
</tr>
</tbody>
</table>

* Standard models NPT 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.
SIZING INSTRUCTIONS

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.

TO SELECT A LINE PRESSURE REGULATOR OF SUFFICIENT FLOW - ONE MUST KNOW:

1. Available inlet pressure (maximum static/minimum operating).
2. Desired outlet pressure.
3. Required maximum capacity (total load, all appliances combined) and maximum individual load.
4. Pipe size.

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

KNOWN:

A. Required: 1/2” NPT line regulator, outlet pressure of 7” w.c., with static pressure of 2 psi, and a minimum operating inlet pressure of 1 psi.

B. Combined BTU rating of all appliances to be served by the regulator: 145,000 Btu/hr.

C. Largest single appliance's BTU rating: 90,000 Btu/hr

SOLUTION:

A. In the Capacities Table (page 3), locate rows where 1/2” (pipe size) models with 7” w.c. outlet pressure intersect with 1 psi operating inlet pressure column. (325-3L = 250 CFH, 325-5AL = 425 CFH).

B. The total BTU load requirement cannot exceed the requirement, and does not exceed either model's capacity.

C. The 90,000 Btu/hr single largest appliance rating is below the 325-3L maximum individual load capacity of 140,000 Btu/hr.

D. The 325-3L is the correct line regulator for this application.