General Information

RegO Back Pressure Check Valves are designed to allow flow in one direction only. The check, normally held in the closed position by a spring, precludes the possibility of flow out of the container. When flow starts into the container, the pressure overcomes the force of the spring to open the check. When the flow stops or reverses, the check closes.

Back Pressure Valves for Container or Line Applications
3146 Series, 3176 Series, A3186, A3187S, A3196, and A3276BC

Application

Designed to provide protection of a container opening when desired flow is always into the vessel. May be used in line applications where flow must be limited to one direction.

When used with the appropriate single check filler valve, the combination forms a double check filler valve suitable for use in filling of bulk storage tanks.

Features

- Generous flow channels for low pressure drop.
- Heavy-duty construction for long service life.
- Soft seat valves have synthetic rubber seat disc for positive seals.

Materials

- Body (3146, 3146S, 3176) ....................................................... Brass
- Body (all others) .................................................. Cadmium Plated Steel
- Disc (3146, 3146S, 3176) ....................................................... Brass
- Disc (all others) .................................................. Cadmium Plated Steel
- Stem (3146, 3146S, 3176) ...................................................... Brass
- Stem (A3146, A3196, A3276BC) .................................. Stainless Steel
- Stem (A3176, A3186) ................................... Cadmium Plated Steel
- Spring ................................................................. Stainless Steel
- Seat Disc (3146S, A3276BC) ............................... Synthetic Rubber

Metal-to-metal seats will allow slight leakage after closure. These valves will restrict the escape of container contents in the event of accidental breakage of the piping or fittings.

Back Pressure Valves for Container or Line Applications
3146 Series, 3176 Series, A3186, A3187S, A3196, and A3276BC

A3276BC

A3196S

A3187S

Container Service

Installation

Typical Installation
Application

Designed to provide protection of a container opening when desired flow is always into the vessel. May also be used in the line applications where flow must be limited to one direction.

When used with the appropriate single check filler valve, the combination forms a double check filler valve suitable for use in filling of bulk storage tanks.

The swing-away check offers more efficient flow rates than conventional designs. It swivels open vertically to reduce pressure drop across the valve and improves flow rates.

Features

- Swing-away check design offers faster flow rates.
- Heavy-duty construction for long service life.

Materials

Body (6586D) ......................................................... Brass
Body (A6586D) ..................................................... Steel
Disc ................................................................. Stainless Steel
Stem Assembly .................................................... Stainless Steel
Spring ............................................................ Stainless Steel
Screw ............................................................. Stainless Steel

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>A Inlet Connection F NPT</th>
<th>B Outlet Connection M NPT</th>
<th>C Wrench Hex Flats</th>
<th>D Effective Length (approx.)</th>
<th>Propane Liquid Capacity at various differential pressures (GPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Brass (6586D)</td>
<td>Steel (A6586D)</td>
<td></td>
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<td>5 PSIG</td>
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<tr>
<td>3146</td>
<td>¾”</td>
<td>¾”</td>
<td>¼”</td>
<td>1½”</td>
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<td>3146S*</td>
<td></td>
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<td>2”</td>
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<td>3176BC*</td>
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<td>2”</td>
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<td>3”</td>
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<td>2” M &amp; 1¼” F</td>
<td>2¼”</td>
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<td>4”</td>
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<td>3198S*</td>
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<td>3” M &amp; 2” F</td>
<td>3½”</td>
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<td>210</td>
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</tbody>
</table>

NOTE: Multiply flow rate by .94 to determine liquid butane capacity.

*Soft seat version.
**The 1¼” and 2” outlet connections are for a standpipe when installed inside of a container.