Griffco® injection check valves are designed to ensure chemical feed systems inject into the center of a process stream for better mixing and to prevent corrosion along the process pipe. The check valve prevents the process fluid from going back up the chemical line. Robust construction ensures reliability in the rigorous service of municipal and industrial applications. Materials of construction include PVC, CPVC, PVDF, 316 SS, Alloy 20 and Hastelloy C. They are available in sizes 1/2", 3/4", 1", 1.5", and 2".

**Features:**
- High Reliability / Low Cost
- Robust, Machined Construction
- Comes Complete with Union
- Hastelloy C Spring
- Multiple Tip options
- Optional Chemical Line Drain
- Integrated Quill
- Wide Range of Materials

**Operation:**
Griffco® injection valves are threaded into a process pipe or tank to deliver chemical to a desired application point. The integrated quill keeps the chemical off the wall of the tank or pipe and will ensure better mixing of the chemical with the process fluid. The ball check in the valve functions as a positive shut-off to ensure the process fluid does not go back up the chemical line. The union facilitates an easy connection between the valve and the chemical line.

**Sectional Drawing:**

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**Typical Installation**

- Relief Piping and Calibration Line
- Relief Valve Flow Indicator
- Perforation Damper
- Drain Valve
- Chemical Tank
- Y Strainer
- Shut-off Valve
- Chemical Feed
- Chemical Fad
- Drain Valve
- Isolating Ball Valves
Technical Data:

<table>
<thead>
<tr>
<th>Sizes: Model ICV</th>
<th>1/2&quot;, 3/4&quot;, 1&quot;, 1.5&quot;, and 2&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connections:</td>
<td>Union – Threaded (Metal &amp; Plastic) or Socket (Plastic Only)</td>
</tr>
<tr>
<td>Maximum Temperature: (°F)</td>
<td>Plastic: 140°; Metal: 300°</td>
</tr>
<tr>
<td>Maximum Operating Pressure</td>
<td>Plastic: 250 psi; Metal: 350 psi</td>
</tr>
<tr>
<td>Materials of Construction:</td>
<td></td>
</tr>
<tr>
<td>Valve Ball / Spring</td>
<td>PTFE Ball / Hastelloy C Spring</td>
</tr>
<tr>
<td>O Ring</td>
<td>Standard: FKM (Viton®); Optional: EPDM</td>
</tr>
<tr>
<td>Union Nut</td>
<td>Standard: PVC for plastic valves. 316 SS for metal valves; Optional: Others on Request</td>
</tr>
<tr>
<td>Valve Body</td>
<td>PVC, CPVC, PP, PVDF, 316 SS, A 20, Hast. C; Others on Request</td>
</tr>
<tr>
<td>Optional Injection Tip</td>
<td>Contact Factory for details</td>
</tr>
</tbody>
</table>

**Dimensions:**

```
Dimensions:

Legend:
- A: Size
- B: Material
- C: Quill Length
- D: Option

<table>
<thead>
<tr>
<th>Sizes</th>
<th>A - Threaded (Metal &amp; Plastic)</th>
<th>A - Socket (Plastic Only)</th>
<th>B * (Std)</th>
<th>C</th>
<th>Connections (D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>½&quot;</td>
<td>8.25&quot;</td>
<td>7&quot;</td>
<td>4&quot;</td>
<td>0.6&quot;</td>
<td>½&quot;</td>
</tr>
<tr>
<td>¾&quot;</td>
<td>8.75&quot;</td>
<td>7.5&quot;</td>
<td>4&quot;</td>
<td>0.7&quot;</td>
<td>¾&quot;</td>
</tr>
<tr>
<td>1&quot;</td>
<td>8.75&quot;</td>
<td>7.5&quot;</td>
<td>4&quot;</td>
<td>0.9&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>1.5&quot;</td>
<td>13.25&quot;</td>
<td>11.25&quot;</td>
<td>6&quot;</td>
<td>1.4&quot;</td>
<td>1-1/2&quot;</td>
</tr>
<tr>
<td>2&quot;</td>
<td>13.5&quot;</td>
<td>11.5&quot;</td>
<td>6&quot;</td>
<td>1.9&quot;</td>
<td>2&quot;</td>
</tr>
</tbody>
</table>
```

*Standard length, optional lengths available up to 24"*

**Tip Configurations:**
- Flat (std)
- Beveled

**Product Codes for Ordering:**

```
ICV  □□□□□□□□□□□
1  2  3  4  5
050 - 1/2"  □□□□□□□□□□□
075 - 3/4"  □□□□□□□□□□□
100 - 1"    □□□□□□□□□□□
150 - 1.5"  □□□□□□□□□□□
200 - 2"    □□□□□□□□□□□

1 = Size  2 = Material  3 = Quill Length  4 = Options
050 - 1/2" S - 316 SS    Blank - 4" (std ½"-1")     Blank – Viton & Flat tip
075 - 3/4" A - Alloy 20   Blank - 6" (std 1.5"-2")     E – EPDM
100 - 1"  C - Hastelloy C B – BSPT threads        B – BSPT threads
150 - 1.5" P - PVC       (Others by request)         S – Socket Connection (Plastic only)
200 - 2"  CP-CPVC        SD – Metric socket (Plastic only)
                          (Others by request)         TC – PTFE Coated Hast. C Spring
                          PP - Polypropylene          L – Beveled/angled
```

**Website:** www.griffcovalve.com  **E-mail:** sales@griffcovalve.com