## Head Loss Chart for Dual Disc Check Valves

**Valvematic Valve and Manufacturing Corp.**

**Head Loss Chart for Dual Disc Check Valves**

**Date Revisions:**
- Revised: 9-12-17
- Revised: 10-29-91

### Size and Cv Values

<table>
<thead>
<tr>
<th>SIZE</th>
<th>2</th>
<th>21/2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
<th>20</th>
<th>24</th>
<th>30</th>
<th>36</th>
<th>42</th>
<th>48</th>
<th>54</th>
<th>60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cv (Series 8800G)</td>
<td>77</td>
<td>129</td>
<td>209</td>
<td>358</td>
<td>573</td>
<td>898</td>
<td>1,740</td>
<td>3,180</td>
<td>4,950</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cv (Series 8800W)</td>
<td>76</td>
<td>161</td>
<td>224</td>
<td>400</td>
<td>648</td>
<td>1,060</td>
<td>1,890</td>
<td>3,340</td>
<td>5,270</td>
<td>5,200</td>
<td>7,200</td>
<td>9,400</td>
<td>12,000</td>
<td>18,500</td>
<td>33,000</td>
<td>50,000</td>
<td>72,000</td>
<td>97,000</td>
<td>130,000</td>
<td>180,000</td>
</tr>
</tbody>
</table>

### Head Loss in Feet of Water

- **Head Loss in Feet of Water**
- **Cubic Meters per Hour**
- **Meters of Water**

### Diagram Notes:

- **Wafer End Valves**
- **Grooved End Valves**

### Velocity Range:

- 2" - 50 feet/second
- 3" - 55 feet/second
- 4" - 60 feet/second
- 5" - 65 feet/second
- 6" - 70 feet/second
- 8" - 75 feet/second
- 10" - 80 feet/second
- 12" - 85 feet/second
- 14" - 90 feet/second
- 16" - 95 feet/second
- 18" - 100 feet/second
- 20" - 105 feet/second
- 24" - 110 feet/second
- 30" - 115 feet/second
- 36" - 120 feet/second
- 42" - 125 feet/second
- 48" - 130 feet/second
- 54" - 135 feet/second
- 60" - 140 feet/second

### Water Velocity:

- 2" - 6 feet/second
- 3" - 8 feet/second
- 4" - 9 feet/second
- 5" - 11 feet/second
- 6" - 15 feet/second
- 8" - 20 feet/second
- 10" - 25 feet/second
- 12" - 30 feet/second
- 14" - 35 feet/second
- 16" - 40 feet/second
- 18" - 45 feet/second
- 20" - 50 feet/second
- 24" - 55 feet/second
- 30" - 60 feet/second
- 36" - 65 feet/second
- 42" - 70 feet/second
- 48" - 75 feet/second
- 54" - 80 feet/second
- 60" - 85 feet/second

### Recommended Valve Sizing Range:

- 2" - 100 feet
- 3" - 120 feet
- 4" - 140 feet
- 5" - 160 feet
- 6" - 180 feet
- 8" - 200 feet
- 10" - 220 feet
- 12" - 240 feet
- 14" - 260 feet
- 16" - 280 feet
- 18" - 300 feet
- 20" - 320 feet
- 24" - 340 feet
- 30" - 360 feet
- 36" - 380 feet
- 42" - 400 feet
- 48" - 420 feet
- 54" - 440 feet
- 60" - 460 feet