Introducing our new Emissions Reduction, Class 800, Gate Valve Series 12111ER and SW-12111ER. This valve series utilizes the proven efficiency of two sets of flexible graphite valve packing separated by a lantern ring and equipped with a grease injector for the injection of a compatible sealant between the sets of packing. The resultant seal dramatically reduces fugitive emissions through the most vulnerable leak path of a valve. Maintenance of this seal is easily accomplished by replenishing the grease sealant in the packing chamber through the grease injector.

Vogt makes this Emissions Reduction offering available in the form of threaded and socket weld end gate valves and retrofit bonnet assembly. These bonnet assemblies can be used for field conversion of existing in-line Vogt Class 150, 300, 600 and 800 compact design bolted bonnet gate valves (½” through 2” sizes).
Emission Reduction: Gate Valve & Retrofit Bonnet Assembly

- Round Bolted Bonnet
- Spiral Wound Gasket
- Outside Screw & Yoke
- Bolted Gland
- Double Packing
- Lantern Ring
- Sealant Injector
- Solid Wedge
- Hard Faced Seats
- API 602
- ASME B16.34

Also Available, Emissions Reduction Retrofit Bonnet Assembly Packages for Field Retrofitting of Vogt Series Nos. 353, 363, 373, 12111, SW-12111, 12161 and SW-12161 in 1/2"-2" Valve Sizes.

The Retrofit Bonnet Assembly Packages can be easily installed on most existing in-line Vogt Compact Design Gate Valves in Classes 150, 300, 600 and 800 of A105 bolted bonnet design with 13-CR trim. Specify the desired Retrofit Bonnet Assembly Package for the valve size and series you intend to convert to Emissions Reduction design.

### 1975 psi @ 100°F*

**Conventional Port**

<table>
<thead>
<tr>
<th>Class 800 Sizes 1/2-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Throad Series 12111ER</td>
</tr>
<tr>
<td>Socket Weld Series SW 12111ER</td>
</tr>
<tr>
<td>A105 Body/Bonnet</td>
</tr>
<tr>
<td>13% Cr. Trim; Seats: HF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Valve Size</th>
<th>1/2</th>
<th>3/4</th>
<th>1</th>
<th>1 1/4</th>
<th>1 1/2</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight, Pounds</td>
<td>5.9</td>
<td>5.8</td>
<td>9.8</td>
<td>17.7</td>
<td>17.6</td>
<td>23.0</td>
</tr>
<tr>
<td>A – End to End</td>
<td>3.38</td>
<td>3.38</td>
<td>4.00</td>
<td>4.75</td>
<td>4.75</td>
<td>5.25</td>
</tr>
<tr>
<td>B – Open</td>
<td>8.16</td>
<td>8.16</td>
<td>10.28</td>
<td>12.12</td>
<td>12.12</td>
<td>13.38</td>
</tr>
<tr>
<td>C – Closed</td>
<td>7.56</td>
<td>7.56</td>
<td>9.36</td>
<td>10.72</td>
<td>10.72</td>
<td>11.69</td>
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<tr>
<td>D – Seat Dia.</td>
<td>.50</td>
<td>.50</td>
<td>.75</td>
<td>1.25</td>
<td>1.25</td>
<td>1.50</td>
</tr>
<tr>
<td>E – Handwheel Dia.</td>
<td>4.00</td>
<td>4.00</td>
<td>4.75</td>
<td>5.75</td>
<td>5.75</td>
<td>7.00</td>
</tr>
<tr>
<td>Cv Factor</td>
<td>9.6</td>
<td>9.7</td>
<td>20.3</td>
<td>80.5</td>
<td>91.6</td>
<td>117.6</td>
</tr>
</tbody>
</table>

*Service temperature will be limited by sealant manufacturer’s recommendation*

Write for Edward Vogt’s installation procedure covering instructions for proper field retrofit to Emissions Reduction valve designs.
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