THE SHUTTER VALVE

Patented high-performance valve featuring:

- Precision flow control
- Leak-proof shut off to 1000 PSI
- Zero pressure drop technology
- Full bore operation
- Reduced cavitation and water hammer

Specifications:

- Available in 1" and 4" sizes, 2" coming soon
- Factory designed and assembled
- Temperature and pressure tested
- Stainless Steel 316; Aluminum 6061-T6 (4 inch only)
- Application specific seals and gaskets available
- ManX® Seal for slurries and mixed phase media
- Easy maintenance and repair
- Plug and Play compatible with existing systems
- Temperature range: -40°F to +600°F (-40°C to +315°C)

Weights and Dimensions:

<table>
<thead>
<tr>
<th>Size</th>
<th>Weight (LBS)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Min. Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; Stainless Steel</td>
<td>6</td>
<td>0.91&quot;</td>
<td>5.2&quot;</td>
<td>4.7&quot;</td>
<td>7.4&quot;</td>
<td>3.31&quot;</td>
<td>80 lb-in</td>
</tr>
<tr>
<td>4&quot; Stainless Steel</td>
<td>180</td>
<td>4.00&quot;</td>
<td>11.5&quot;</td>
<td>16.3&quot;</td>
<td>19.5&quot;</td>
<td>4.7&quot;</td>
<td>10.0&quot;</td>
</tr>
<tr>
<td>4&quot; Aluminum</td>
<td>72</td>
<td>4.00&quot;</td>
<td>11.5&quot;</td>
<td>16.3&quot;</td>
<td>19.5&quot;</td>
<td>4.7&quot;</td>
<td>10.0&quot;</td>
</tr>
</tbody>
</table>

*Connections: 1" NPT and 4" Class 150 and Class 300 flanges

Design / Quality Standards & Specifications:
- ASME B16.34
- ASMB B16.10
- ISO 9001:2012
- EN12266:2012
- API-6D (upon request)
- U.S. Patent numbers: 6,199,531; 8,910,020

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