**QUANTUM Large-Bore Flapper Valve**

**APPLICATIONS**
- Sand-control completions in all normal environments
- Severe service (option)

**BENEFITS**
- Maintains maximum production level after flapper removal
- Promotes wellbore stability
- Minimizes loss of completion fluid to the formation
- Eliminates need for formation-damaging loss-containment pills
- Reduces rig time

**FEATURES**
- Severe service construction available on special request
- Fullbore opening
- Field-proven design
- Easy operation

The QUANTUM® large-bore flapper valve (LBFV) is a mechanical, fluid-loss-prevention device used in, but not limited to, sand-control completions. Placing the valve in the production string eliminates the need for spotting potentially damaging fluid-loss-control materials after pulling the service tool from the packer assembly. Normally the flapper is positioned above the safety shear sub and below the circulating housing in a gravel-pack assembly. The standard flapper is held open by the wash pipe and closes upon removal of the pipe. The flapper is designed to be broken, mechanically or hydraulically, into equal-sized, pie-shaped pieces. Once the flapper is removed, there is a fullbore opening for production.

The flapper is manufactured from a special alloy to provide strength and accurate breakage. The LBFV is available for casing sizes of 5 in. (127.0 mm) and larger.
### QUANTUM Large-Bore Flapper Valve Specifications

<table>
<thead>
<tr>
<th>Size, in [mm]</th>
<th>Max. OD, in [mm]</th>
<th>Min. ID, in [mm]</th>
<th>Flapper Pressure Rating, psi [kPa]</th>
<th>Burst†, psi [kPa]</th>
<th>Collapse† psi [kPa]</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.000 [127.0]</td>
<td>3.660 [93.0]</td>
<td>1.760 [44.7]</td>
<td>3,300 [22,754]</td>
<td>10,000 [68,950]</td>
<td>10,000 [68,950]</td>
</tr>
<tr>
<td>5.000 [127.0]</td>
<td>3.660 [93.0]</td>
<td>1.900 [48.3]</td>
<td>2,500 [17,238]</td>
<td>10,000 [68,950]</td>
<td>10,000 [68,950]</td>
</tr>
<tr>
<td>5.500 [139.7]</td>
<td>4.140 [105.2]</td>
<td>2.175 [55.2]</td>
<td>3,300 [22,754]</td>
<td>10,000 [68,950]</td>
<td>10,000 [68,950]</td>
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<tr>
<td>7.000 [177.8]</td>
<td>5.570 [141.5]</td>
<td>3.250 [82.6]</td>
<td>2,250; 3,300; or 4,000 [15,514; 22,754; or 27,580]</td>
<td>10,000 [68,950]</td>
<td>10,000 [68,950]</td>
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<tr>
<td>9.625 [244.5]</td>
<td>8.110 [206.0]</td>
<td>4.990 [126.7]</td>
<td>2,250 or 3,000 [15,514 or 20,685]</td>
<td>10,000 [68,950]</td>
<td>10,000 [68,950]</td>
</tr>
</tbody>
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† Exclusive of End Connections (EOEC). Working pressure depends on thread connections.