...provide over-pressure protection in sanitary piping system

The RLPS Sanitary Disk is an extension of ZOOK's Reverse Acting Metal Rupture Disk design. Applications include: food processing, dairy, breweries, pharmaceutical, distilling, baking, canning, cosmetics, biotechnology, and petrochemical industries.

Features

- **Ideal for high purity and corrosion resistance service**
- Designed for Non-fragmentation
- Rugged, scoreless design offers higher cycle life when compared to scored reverse acting disks
- Excels in liquid, gas, or two-phase applications
- 0% manufacturing range is standard
- Standard operating ratio of 90% of the low end of the burst tolerance – may be extended to 95% of the minimum burst pressure. (Contact ZOOK for operating ratio on pressures below 40 psig)
- Self supporting under full vacuum (with included support ring)
- Resists product buildup. Only the smooth convex side of the disk is exposed to the process medium
- Installs using industry standard Tri-clamp®/Tri-clover® fittings (NA-Connect mounting also available)
- Standard gasket material: Black Buna-N (see chart on reverse page for alternate materials)
- Sizes 1" (25mm) through 4" (100mm)
- CE and TUV compliance available

Optional Features

- TFE liners are available to provide additional protection from corrosive media
- Burst indication (Integral or Ferrule mounted)
- Torque-rite® sanitary clamp nut (eliminates the problems associated with over/under tightening)
### RLPS Minimum and Maximum Pressure Ratings

<table>
<thead>
<tr>
<th>Size in (mm)</th>
<th>Burst Pressure – psig (bar)</th>
<th>MNFA in² (cm²)</th>
<th>Tri-Clover Ferrule Dimensions in (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum w/liner Maximum</td>
<td></td>
<td>Ferrule OD Tube ID</td>
</tr>
<tr>
<td>1&quot; (25)</td>
<td>11 (0.76) 16 (1.10)</td>
<td>0.35 (2.25)</td>
<td>1.984 (50.4) 0.856 (21.7)</td>
</tr>
<tr>
<td>1-1/2&quot; (40)</td>
<td>9 (0.62) 11 (0.76)</td>
<td>0.79 (5.09)</td>
<td>1.984 (50.4) 1.356 (34.4)</td>
</tr>
<tr>
<td>2&quot; (50)</td>
<td>7 (0.48) 11 (0.76)</td>
<td>1.63 (8.77)</td>
<td>2.516 (63.9) 1.856 (47.1)</td>
</tr>
<tr>
<td>3&quot; (80)</td>
<td>6 (0.41) 10 (0.69)</td>
<td>3.86 (24.9)</td>
<td>3.579 (90.9) 2.865 (72.5)</td>
</tr>
<tr>
<td>4&quot; (100)</td>
<td>3 (0.21) 8 (0.55)</td>
<td>6.82 (43.99)</td>
<td>4.682 (118.9) 3.810 (96.8)</td>
</tr>
</tbody>
</table>

* Alternate sizes, disk materials, gasket materials and lower burst ratings may be available on request.

**Note:** Maximum disk temperature is dependent on gasket material selected.

Gaskets

<table>
<thead>
<tr>
<th>Material</th>
<th>Max. Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Buna-N*</td>
<td>230F (110C)</td>
</tr>
<tr>
<td>White Buna-N</td>
<td>230F (110C)</td>
</tr>
<tr>
<td>Black EPDM*</td>
<td>230F (110C)</td>
</tr>
<tr>
<td>Black Viton*</td>
<td>400F (204C)</td>
</tr>
</tbody>
</table>

▲ – Stocked material

### Manufacturing Range / Burst Tolerance

<table>
<thead>
<tr>
<th>Specified Burst Pressure Rating psig (bar)</th>
<th>Available Manufacturing Ranges</th>
<th>Burst Tolerance psig (bar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to below 5 (0.07 to below 0.34)</td>
<td>0%, -5%, -10%</td>
<td>+/-0.50 (+/-0.03)</td>
</tr>
<tr>
<td>5 to below 10 (0.34 to below 0.69)</td>
<td>0%, -5%, -10%</td>
<td>+/-0.80 (+/-0.06)</td>
</tr>
<tr>
<td>10 to below 15 (0.69 to below 1.03)</td>
<td>0%, -5%, -10%</td>
<td>+/-1.30 (+/-0.09)</td>
</tr>
<tr>
<td>15 to 40 (1.03 to 2.76)</td>
<td>0%, -5%, -10%</td>
<td>+/-2.00 (+/-0.14)</td>
</tr>
<tr>
<td>Above 40 (Above 2.76)</td>
<td>0%, -5%, -10%</td>
<td>+/-5%</td>
</tr>
</tbody>
</table>

**Notes:**

- 0% manufacturing range might not be available in all materials
- Burst tolerances are the maximum expected variation from the disk’s marked burst pressure

### Optional Torque-Rite® Nut

- An audible “click” indicating correct torque setting
- Maintains the recommended constant 50in-lb torque
- Retrofits all sanitary clamps, mini through 6"
- No torque wrench or special training required

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**Features**

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- Maintains the recommended constant 50in-lb torque
- Retrofits all sanitary clamps, mini through 6"
- No torque wrench or special training required

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