**Gland Dimensions**

**Face Seal Glands**

**FOR INTERNAL PRESSURE**
(outward pressure direction)
dimension the groove by its outside diameter: \( H, l \) and width:

- \( H_r \) - Mean O.D. of O-ring
- Tolerance - Minus 1% of Mean\[
  \begin{align*}
    &\square \ O.D. \ but \ not \ more \ than \\
    &\square \ -0.060
  \end{align*}
\]

**FOR EXTERNAL PRESSURE**
(inward pressure direction)
dimension the groove by its inside diameter: \( H, l \) and width:

- \( H_r \) - Mean I.D. of O-ring
- Tolerance - Plus 1% of Mean\[
  \begin{align*}
    &\square \ I.D. \ but \ not \ more \ than \\
    &\square \ +0.060
  \end{align*}
\]

**BREAK CORNERS APPROX. 0.005 RAD.**

**SURFACE FINISH X 32 FOR LIQUIDS**
**16 FOR VACUUM AND GASES**

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**DESIGN TABLE**

**FOR O-RING FACE SEAL GLANDS**

These dimensions are intended primarily for face type seals and low temperature applications.

<table>
<thead>
<tr>
<th>O-RING SIZE</th>
<th>W</th>
<th>CROSS SECTION</th>
<th>L</th>
<th>GLAND DEPTH</th>
<th>SQUEEZE G</th>
<th>R</th>
<th>LIQUIDS</th>
<th>VACUUM AND GASES</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS-568</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>004 through 1/16</td>
<td>.070</td>
<td>1/16</td>
<td>.050</td>
<td>.013</td>
<td>19</td>
<td>1.010</td>
<td>.083</td>
<td>.005</td>
</tr>
<tr>
<td>050 through 3/32</td>
<td>.103</td>
<td>3/32</td>
<td>.080</td>
<td>.032</td>
<td>30</td>
<td>1.142</td>
<td>.123</td>
<td>.015</td>
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<tr>
<td>102 through 1/8</td>
<td>.139</td>
<td>1/8</td>
<td>.101</td>
<td>.028</td>
<td>20</td>
<td>1.177</td>
<td>.157</td>
<td>.010</td>
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<tr>
<td>201 through 1/4</td>
<td>.275</td>
<td>1/4</td>
<td>.201</td>
<td>.058</td>
<td>21</td>
<td>1.342</td>
<td>.305</td>
<td>.020</td>
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<tr>
<td>475 through 1/2</td>
<td>.500</td>
<td>1/2</td>
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<td>.112</td>
<td>22</td>
<td>1.638</td>
<td>.560</td>
<td>.045</td>
</tr>
</tbody>
</table>

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**Gland Dimensions**

**Face Seal Glands**

**GLAND DETAIL**

**SECTION W-W**

W - W

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