## STANDARD SAE PARALLEL KEY SPLINE

<table>
<thead>
<tr>
<th>No. of Keys</th>
<th>Space Width Internal</th>
<th>(A) Fit Permanent Fit</th>
<th>(B) Fit to Slide Not Under Load</th>
<th>(C) Fit to Slide Under Load</th>
<th>Normal Major Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>WD</td>
<td>Minor</td>
<td>WD</td>
<td>Minor</td>
</tr>
<tr>
<td>4</td>
<td>0.241D</td>
<td>0.075D</td>
<td>0.850D</td>
<td>0.125D</td>
<td>0.750D</td>
</tr>
<tr>
<td>6</td>
<td>0.250D</td>
<td>0.050D</td>
<td>0.900D</td>
<td>0.075D</td>
<td>0.850D</td>
</tr>
<tr>
<td>10</td>
<td>0.156D</td>
<td>0.045D</td>
<td>0.910D</td>
<td>0.070D</td>
<td>0.860D</td>
</tr>
<tr>
<td>13</td>
<td>0.098D</td>
<td>0.045D</td>
<td>0.910D</td>
<td>0.070D</td>
<td>0.860D</td>
</tr>
</tbody>
</table>

### Notes:
- \( N = \) # of Keys
- \( RD = 1.271 \)
- \( B = 180°/N \)
- \( B = 180/6 = 30° \)
- \( \sin A = KW/RD \)
- \( \sin "A" = .2919 \)
- \( C = B - A \)
- \( A = 16.97151° \)
- \( PW = RD \times \sin "C" \)
- \( C = 13.02849 \)
- \( N = 6 \)
- \( \sin "C" = .22543 \)
- \( KW = .371 \)
- \( W = 1.271 \times .22543 \)
- \( PW = .2865 \)