RIVKLE® SFC

Smart For Composite

BÖLLHOFF
**RIVKLE® SFC**

**Suppression of radial stresses**
- Specific buldge

**Advantages:**
- No delamination risks (due to the fastener)
- Reduction of crack risk at injection welding line
- Possible reduction of distance to edge
- Larger hole tolerance
- Allows off axis setting

**Increase of hole tolerance:** $D_0^{+0.1} \rightarrow D_0^{+0.6}$

- Clamp load uniformly distributed on a ring
- Fiber-reinforced polymer material

**RIVKLE® SFC sectional view**
Suitable for Fiber-reinforced polymer material

Suppression of radial stresses

- Compression
- STANDARD
- RIVKLE® SFC

Axial clamp load only
Distance to edge reduced

Homogeneous distribution of axial clamp load on a ring

- Stresses far from the corner

- Provides a greater hole tolerance: $D_0^{+0.1} \rightarrow D_0^{+0.6}$

- Preserves its performance, even off-axis setting

- Compatible with standard polymer processes for realization of holes (water jet cutting, injection,...)
**RIVKLE® SFC** is becoming the reference of blind rivet nut for reinforced polymers:

<table>
<thead>
<tr>
<th>CRITERIA</th>
<th>Standard RIVKLE®</th>
<th>RIVKLE® PlusNut</th>
<th>Shouldered RIVKLE®</th>
<th>RIVKLE® SFC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grip interval</td>
<td>2,5 mm</td>
<td>6,5 mm</td>
<td>0,2 mm</td>
<td>1,5 to 2,0 mm</td>
</tr>
<tr>
<td>Support conservation</td>
<td>Depends on the quality and the thickness of the support</td>
<td>Depends on the quality of the support</td>
<td>Under control</td>
<td>Under control for all the grip range</td>
</tr>
<tr>
<td>Radial stresses</td>
<td>YES</td>
<td>YES</td>
<td>FEW</td>
<td>NONE</td>
</tr>
<tr>
<td>Delamination risks or break on welding lines</td>
<td>YES</td>
<td>YES</td>
<td>LOW</td>
<td>VERY LOW</td>
</tr>
<tr>
<td>Possible reduction of distance to edge</td>
<td>LIMITED</td>
<td>LIMITED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compatible with standard processes for realization of holes (water jet cutting, injection, …)</td>
<td>Industrial process must be adapt</td>
<td>Industrial process must be adapt</td>
<td>Industrial process must be adapt</td>
<td>Hole tolerance interval = 0,6 mm</td>
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</tbody>
</table>

**RIVKLE® SFC** exists in several references:

**Steel**

<table>
<thead>
<tr>
<th>D (mm)</th>
<th>L (mm)</th>
<th>B (mm)</th>
<th>Ø (min - max) (mm)</th>
<th>a/2 (Ø) (mm)</th>
<th>(N)</th>
<th>L₂ (min) (mm)</th>
<th>E (mm)</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20,7</td>
<td>13,0</td>
<td></td>
<td>2,0 - 3,5</td>
<td></td>
<td>9,1</td>
<td>12 000</td>
<td>11,0</td>
<td>1,5</td>
</tr>
<tr>
<td>22,2</td>
<td>13,0</td>
<td></td>
<td>3,5 - 5,0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20,7</td>
<td>18,0</td>
<td></td>
<td>2,0 - 3,5</td>
<td></td>
<td>9,1</td>
<td>12 000</td>
<td>11,0</td>
<td>1,5</td>
</tr>
<tr>
<td>22,2</td>
<td>18,0</td>
<td></td>
<td>3,5 - 5,0</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M8</td>
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<tr>
<td>22,0</td>
<td>20,0</td>
<td></td>
<td>2,0 - 3,5</td>
<td></td>
<td>11,1</td>
<td>18 000</td>
<td>12,0</td>
<td>1,5</td>
</tr>
<tr>
<td>23,5</td>
<td>20,0</td>
<td></td>
<td>3,5 - 5,0</td>
<td></td>
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</tbody>
</table>

**Stainless steel A4**

<table>
<thead>
<tr>
<th>D (mm)</th>
<th>L (mm)</th>
<th>B (mm)</th>
<th>Ø (min - max) (mm)</th>
<th>a/2 (Ø) (mm)</th>
<th>(N)</th>
<th>L₂ (min) (mm)</th>
<th>E (mm)</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>26,6</td>
<td>H12</td>
<td></td>
<td>1,5 - 3,0</td>
<td></td>
<td>9,1</td>
<td>14 000</td>
<td>17,6</td>
<td>1,5</td>
</tr>
</tbody>
</table>

Available on request in other models (sealing option, stud…)

Grip range could be enlarge under some specific conditions link to support material type and level of request. A test validation is necessary, please take contact with us.

**RIVKLE® SFC** is fully compatible with the whole Böllhoff **RIVKLE®** setting tool range:
Böllhoff International with companies in:
- Argentina
- Austria
- Brazil
- Canada
- China
- Czech Republic
- France
- Germany
- Hungary
- India
- Italy
- Japan
- Korea
- Mexico
- Poland
- Romania
- Russia
- Slovakia
- Spain
- Switzerland
- Turkey
- United Kingdom
- USA

Apart from these 23 countries, Böllhoff supports its international customers in other important industrial markets in close partnership with agents and dealers.